ORDER NO. AD9109215C2

Service Manual

Receiver

SA-GX505

AV Control Stereo Receiver

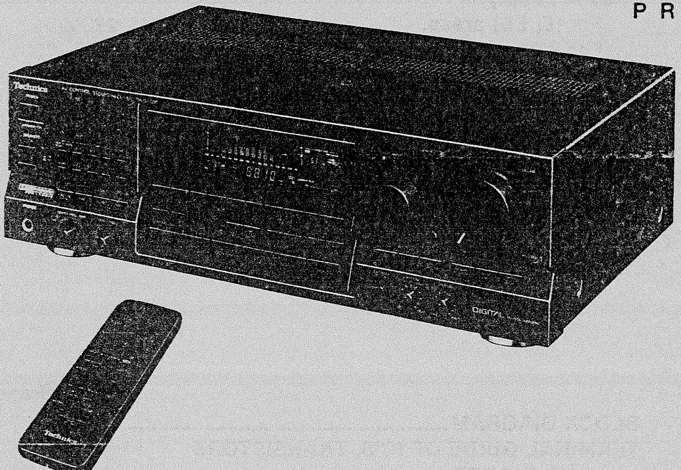
DOLBY SURROUND*
PRO·LOGIC

Color

(K)... Black Type

Area

Country Code	Area	Color
(E)	Continental Europe.	(K)
(EB)	Great Britain.	
(EG)	F.R. Germany & Italy.	



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SPECIFICATIONS (DIN 45 500)

■ AMPLIFIER SECTION

Power output	
DIN 1 kHz (T.H.D. 1%)	2×100 W (4 Ω)
20 Hz~20 kHz continuous power output both channels driven	2×65 W (8 Ω)
Total harmonic distortion	
rated power at 20 Hz~20 kHz	0.05% (8 Ω)
half power at 1 kHz	0.03% (8 Ω)
Intermodulation distortion	
rated power at 60 Hz: 7 kHz=4:1, SMPTE	0.5% (8 Ω)
Power bandwidth	
both channels driven, −3 dB	10 Hz~40 kHz (8 Ω)
Damping factor	40 (8 Ω)
Input sensitivity and impedance	
PHONO	3 mV/47 kΩ
CD, VCR 1, VCR 2, TAPE	200 mV/22 kΩ
PHONO maximum input voltage (1 kHz, RMS)	150 mV
S/N at rated power (8 Ω)	
PHONO	70 dB (IHF, A: 80 dB)
CD, VCR 1, VCR 2, TAPE	80 dB (IHF, A: 90 dB)
Frequency response	
PHONO	RIAA standard curve ±0.8 dB (30 Hz~15 kHz)
CD, VCR 1, VCR 2, TAPE	10 Hz~40 kHz, ±3 dB
Tone controls	
BASS	50 Hz, +10~−10 dB
TREBLE	20 kHz, +10~−10 dB
4 band parametric equalizer	+10~−10 dB
Loudness control (volume at −30 dB)	50 Hz, +9 dB
Output voltage	
VCR 1, TAPE REC OUT	200 mV
Channel balance, 250 Hz~6.3 kHz	±1 dB
Channel separation	55 dB
Headphones output level and impedance	430 mV/330 Ω
Load impedance	
A or B	4~16 Ω
A and B	8~16 Ω

■ SURROUND AMPLIFIER SECTION

Power output (REAR)	1 kHz, 10 W (8 Ω) (T.H.D. 0.8%)
Power output (CENTER)	100 Hz~15 kHz, 10 W (8 Ω) (T.H.D. 0.8%)

■ FM TUNER SECTION

Frequency range	87.50~108.00 MHz
Sensitivity	
S/N 30 dB	1.5 µV/75 Ω
S/N 26 dB	1.3 µV/75 Ω
S/N 20 dB	1.2 µV/75 Ω
IHF usable sensitivity	1.5 µV/75 Ω (IHF '58)
IHF 46 dB stereo quieting sensitivity	22 µV/75 Ω
Total harmonic destortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	60 dB (75 dB, IHF)
STEREO	58 dB (71 dB, IHF)
Frequency response	20 Hz~15 kHz, +1 dB, −2 dB
Alternate channel selectivity	±400 kHz, 65 dB
Capture ratio	1 dB
Image rejection at 98 MHz	40 dB
IF rejection at 98 MHz	70 dB
Spurious response rejection at 98 MHz	70 dB
AM suppression	50 dB
Stereo separation	
1 kHz	40 dB
Carrier leak	
19 kHz	−55 dB (−60 dB, IHF)
38 kHz	−50 dB (−55 dB, IHF)
Channnel balance (250 Hz~6.3 kHz)	±1.5 dB
Limiting point	1.2 µV
Bandwidth	
IF amplifier	180 kHz
FM demodulator	1000 kHz
Antenna terminal	75 Ω (unbalanced)

Technics

■ AM TUNER SECTION

Frequency range	
MW	522~1611 kHz (9 kHz-steps) 530~1620 kHz (10 kHz-steps)
LW	153~351 kHz
Snsitivity (S/N 20 dB)	
MW	20 µV, 330 µV/m
LW	45 µV
Selectivity	
MW at 999 kHz	55 dB
LW at 252 kHz	55 dB
Image rejection	
MW at 999 kHz	40 dB
LW at 252 kHz	40 dB
IF rejection	
MW at 999 kHz	55 dB
LW at 252 kHz	55 dB

■ VIDEO SECTION

Output voltage at 1 V input (unbalanced)	1 ±0.1 Vp-p
Maximum input voltage	1.5 Vp-p
Input/output impedance	75 Ω (unbalanced)

■ GENERAL

Power consumption	620 W
Power supply	
For (E, EB) areas.	AC 50Hz/60Hz, 230V/240V
For (EG) area.	AC 50Hz/60Hz, 230V
Dimensions (W × H × D)	430 × 134 × 305 mm
Weight	10 kg

Notes:
1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

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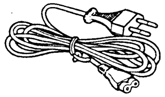
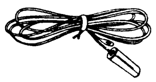
■ ACCESSORIES

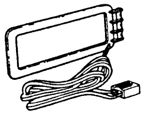
- AC power supply cord... 1 pc.
  [RJA0019-K (E, EG)
  SJA193 (EB)]



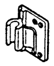
- FM indoor antenna ..... 1 pc.
  (SSA270M)



- AM loop antenna .... 1 pc.
  (SPB1163T)

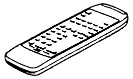


- AM antenna holder ..... 1 pc.
  (SMA233-1M)

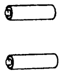


- Screws .... 2 pcs.
  (XTN3+10AFZ)

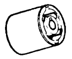
- Remote-control transmitter
  (RAK-SA502E) .... 1 pc.



- Batteries............. 2 pcs.
  (UM-4NE/2S)



- Attachment plug........ 1 pc.
  (SJP9009): (EB) only

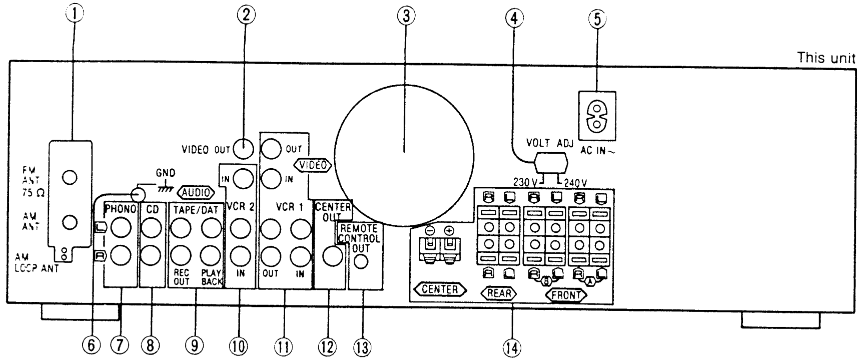


■ BEFORE USE

Be sure to disconnect the mains cord before adjusting the voltage selector.
Use a flat-tip (−) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used.

Note that this unit will be seriously damaged if this setting is not made correctly.

■ CONNECTIONS TO EQUIPMENT


This unit
①
②
③
④
⑤
FM ANT 75 Ω
AM ANT
AM LOOP ANT
GND
VIDEO OUT
OUT
IN
VIDEO
AUDIO
PHONO
L
R
CD
TAPE/DAT
REC OUT
PLAY BACK
VCR 2
IN
VCR 1
OUT
IN
CENTER OUT
REMOTE CONTROL OUT
VOLT ADJ
230V
240V
AC IN～
CENTER
REAR
FRONT
B
A
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭

Stereo connection cable (not included)
White (L)
Red (R)

① Antenna connection terminals

② "VIDEO OUT" terminal

Connect a video connection cable (not included) to the video input terminal of TV or projection TV.

③ Cooling fan

The cooling fan operates at high output power levels only.

④ Voltage selector (VOLT ADJ)

For (E, EB) areas.

⑤ AC IN socket (AC IN)

Connect this socket to an AC outlet on the wall using the power supply cord.

⑥ "GND" terminal

Connect the turntable's ground wire to this terminal (if applicable).

⑦ "PHONO" terminals

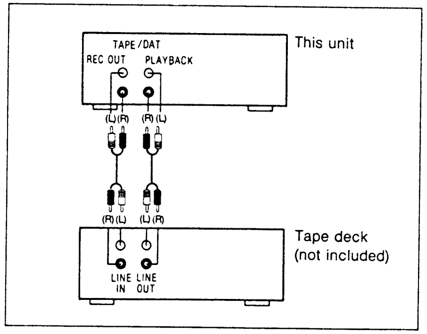
Connect a turntable only. Do not connect any other sound source to these terminals.

⑧ "CD" terminals

Connect a stereo connection cable (not included) to the "LINE OUT" terminal of the compact disc player.

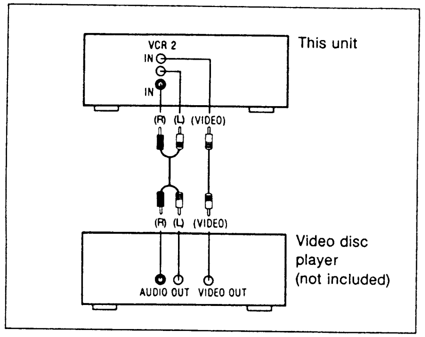
⑨ "TAPE/DAT" terminals

Connect a tape deck or a digital audio tape deck (DAT) by using stereo connection cables (not included).


TAPE/DAT
REC OUT
PLAYBACK
This unit
(L)(R)
(R)(L)
(R)(L)
(L)(R)
Tape deck
(not included)
LINE IN
LINE OUT

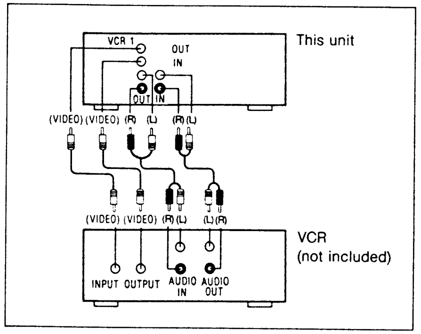
⑩ "VCR 2" terminals

Connect a second VCR or a video disc player by using stereo connection cable (not included) and video connection cable (not included).


VCR 2
IN
IN
This unit
(R) (L) (VIDEO)
(R) (L) (VIDEO)
Video disc player
(not included)
AUDIO OUT
VIDEO OUT

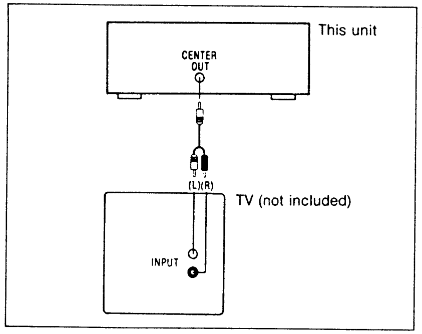
⑪ "VCR 1" terminals

Connect a VCR by using stereo connection cables (not included) and video connection cables (not included).


VCR 1
OUT
IN
OUT
IN
This unit
(VIDEO) (VIDEO) (R) (L) (R)(L)
(VIDEO) (VIDEO) (R)(L) (L)(R)
VCR
(not included)
INPUT
OUTPUT
AUDIO IN
AUDIO OUT

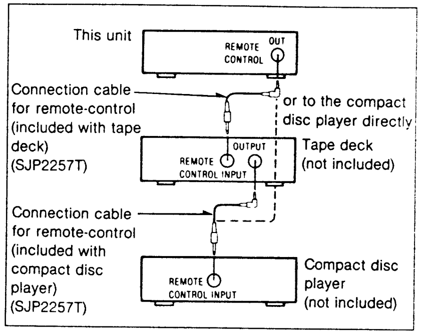
⑫ "CENTER OUT" terminal

This terminal is used to enjoy the Dolby Pro-Logic Surround and the Dolby 3 stereo sound.
Connect a Y-adaptor cable (not included) to the audio input terminal(s) of the external amplifier or TV.
When using the speakers, after setting the center level of the this unit to MAX, adjust the volume on the external amplifier or the TV.


CENTER OUT
This unit
(L)(R)
TV (not included)
INPUT

⑬ Remote-control OUT terminal (REMOTE CONTROL OUT)

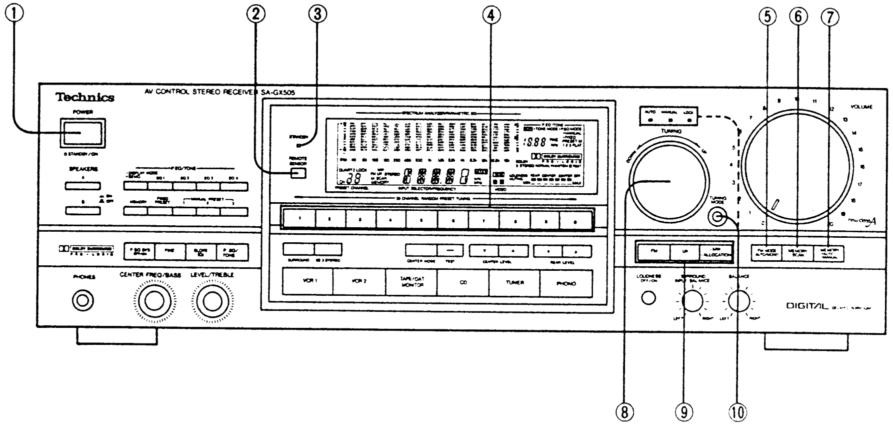
This terminal can be used only with Technics components which have the appropriate remote-control terminal.
(Consult your dealer for details.)
Proper connection with remote-control connection cables SJP2257T will allow control of some functions from this unit's remote-control transmitter. (Refer to pages 10−11 for details.)
Connect to a tape deck and/or compact disc player as shown below.


This unit
REMOTE CONTROL
OUT
Connection cable for remote-control (included with tape deck) (SJP2257T)
or to the compact disc player directly
OUTPUT
REMOTE CONTROL INPUT
Tape deck
(not included)
Connection cable for remote-control (included with compact disc player) (SJP2257T)
REMOTE CONTROL INPUT
Compact disc player
(not included)

Note:
For a compact disc player with a remote-control sensor the above connection is not necessary.

⑭ Speaker connection terminals (SPEAKERS)

■ FRONT PANEL CONTROLS AND FUNCTIONS



Tuner section

① Power " ⏻ STANDBY/ON" switch (POWER, ⏻ STANDBY/ON)

This switch switches ON and OFF the secondary circuit power only. The unit is in the "standby" condition when this switch is set to the ⏻ STANDBY position. Regardless of the switch setting, the primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

② Remote-control signal receptor (REMOTE SENSOR)

Receives the signals from the remote-control transmitter.

③ "STANDBY" indicator (STANDBY)

This indicator illuminates when the "STANDBY" mode is set by the main unit or the remote control transmitter.

④ Preset-tuning buttons (1 – 0) (30 CHANNEL RANDOM PRESET TUNING)

These buttons are used to preset broadcast frequencies into the memory of this unit and to recall the desired preset stations.

⑤ FM mode selector (FM MODE)

This unit automatically switches to the stereo mode when an FM stereo broadcast is received. This selector is used to select the mode (stereo or monaural) of FM broadcast signals.

⑥ Memory scan button (MEMORY SCAN)

This button is used to locate a desired broadcast station; each broadcast station is selected for about 3 seconds.

⑦ Memory button (MEMORY)

This button is used when presetting broadcast station frequencies into memory.

⑧ Tuning control (TUNING)

This control is used to select an FM or AM broadcast. When turning the control to the left, the frequency changes downward. When turning the control to the right, the frequency changes upward.

⑨ Band selectors (FM, MW): For (E, EB) areas. (FM, AM): For (EG) area.

FM: Press this button to listen to an FM broadcast.
LW: Press this button to listen to an LW broadcast.
AM: Press this button to listen to an AM broadcast.
MW: Press this button to listen to an MW broadcast.
ALLOCATION: When the MW button is pressed for about 4 seconds, the MW frequency step will change to 10 kHz per step. (This step is set to 9 kHz before shipment.) In order to return to the original frequency indication, press this button for about 4 seconds again.

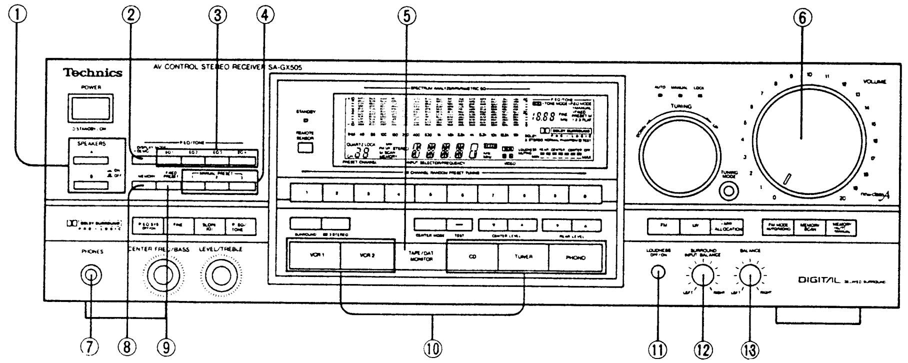
⑩ Tuning-mode selector/indicator (TUNING MODE)

Each time this selector is pressed, the selection changes, in sequence, to "AUTO", "MANUAL" and "LOCK".

AUTO:
In this position, broadcast channels are automatically selected when the tuning control is momentarily turned to the left or right to start the frequency changing.

MANUAL:
In this position, the tuning control can be used to locate the desired channel manually.
The frequency changes only as the tuning control is turned to the right to left.

LOCK:
In this position, the broadcast channel presently being heard is locked in, and other broadcast stations cannot be tuned to, even if the tuning control is turned.



Amplifier section

① Speaker selectors (SPEAKERS)

These selectors are used to select the speaker system(s) (A and/or B).

② Display mode select button (-DISPLAY MODE, -DEMO)

This button is used to select either the spectrum analysis level ("Bar-type display" or "Dot display") or equalization level display.
If the button is pressed for 3 seconds or more, this unit will start a demonstration mode for the parametric EQ system.

③ Parametric EQ band select buttons

These buttons are used to select the band to be adjusted.

④ Equalization preset buttons (MANUAL PRESET)

These buttons are used for storing or recalling the curves made by the parametric EQ system.

⑤ Tape-monitor switch (TAPE/DAT MONITOR)

Press this switch to listen to a tape or a digital audio tape connected to the "TAPE/DAT" terminals.
To listen to some other source, press this switch once again (so that the indicator is switched OFF).

⑥ Volume control (VOLUME)

⑦ Headphones jack (PHONES)

⑧ Parametric EQ system memory button (MEMORY)

This button enables the curves to be stored in the parametric EQ system memory.

⑨ Fixed preset button (FIXED PRESET)

This button is used to recall a "fixed preset" curve from the main unit's memory.

⑩ Input selectors

These selectors are used to select the sound source to be heard, such as a disc, radio broadcasts, etc. The selected sound source is shown on the audio input selector/frequency display.
The "PHONO" input selector has two functions: when pressed momentarily, it selects "PHONO". when pressed and held for about 4 seconds, it de-activates the muting function.

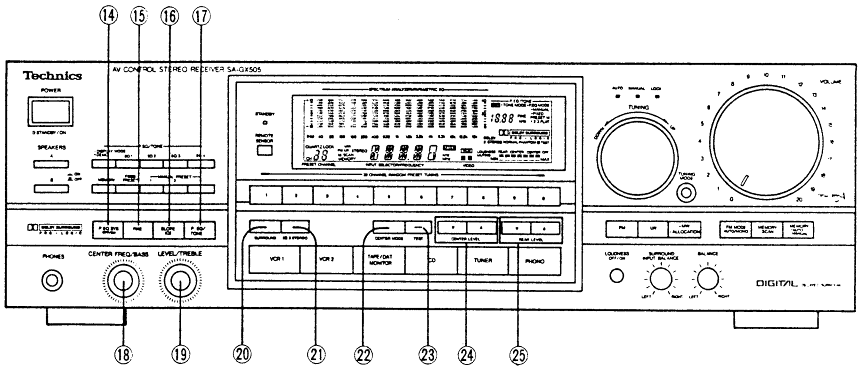
⑪ Loudness switch (LOUDNESS)

Set to the "ON" position (the loudness indicator will illuminate); when listening to music at low volume. Auditory perception of sound in the low frequency range falls off at low volume, but when the switch is in this position, this deficiency is compensated for, so that the full impact of the musical performance can be enjoyed.

⑫ Dolby Pro-Logic Surround input balance control (SURROUND INPUT BALANCE)

This control is used to minimize dialogue leakage in the surround channel thereby optimizing the Dolby Pro-Logic Surround decoding operation.

⑬ Balance control (BALANCE)



⑭ **Parametric EQ system ON/OFF button (P. EQ SYS)**

This button is used to turn the parametric EQ system ON or OFF.

⑮ **Fine mode select button (FINE)**

This button is used to fine-adjust the center frequency of the parametric EQ.

⑯ **Slope changeover button [SLOPE (Q)]**

This button is used to increase or decrease the slope of the parametric EQ curves.

⑰ **Parametric EQ/tone mode select button (P.EQ/TONE)**

This button is used to select parametric EQ mode or tone mode.

⑱ **Center frequency select/bass control (CENTER FREQ/BASS)**

This control is used to select the center frequency in the parametric EQ mode or to adjust the low-frequency sounds in the tone mode.

⑲ **Frequency level/treble control (LEVEL/TREBLE)**

This control is used to adjust the frequency level in the parametric EQ mode or the high-frequency sounds in the tone mode.

⑳ **Dolby Pro-Logic Surround ON/OFF button (SURROUND)**

This button is used to activate the Dolby Pro-Logic Surround effect.

㉑ **Dolby 3 stereo ON/OFF button (3 STEREO)**

This button is used to activate the Dolby 3 stereo effect.

㉒ **Center mode select button (CENTER MODE)**

Each time you press this button, the center mode will change as follows: NORMAL→ PHANTOM→ CENTER OFF.

㉓ **Test signal button (TEST)**

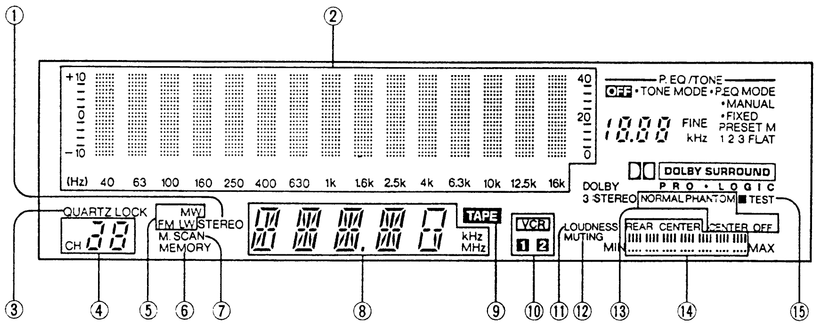
When using the center speaker and/or the rear speakers, press this button to activate the test signal. Then adjust the volume balance of the center speaker and/or rear speakers.

㉔ **Center speaker level adjustment buttons (CENTER LEVEL)**

These buttons are used to adjust the volume level of the center speaker.

㉕ **Rear speaker level adjustment buttons (REAR LEVEL)**

These buttons are used to adjust the volume level of the rear speakers.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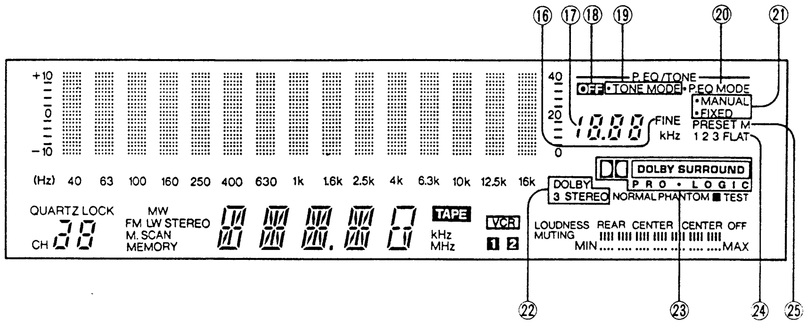
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
+10
0
-10
40
20
0
(Hz) 40 63 100 160 250 400 630 1k 1.6k 2.5k 4k 6.3k 10k 12.5k 16k
P. EQ /TONE
OFF • TONE MODE • P.EQ MODE
• MANUAL
• FIXED
FINE
kHz
PRESET M
1 2 3 FLAT
DOLBY SURROUND
PRO • LOGIC
DOLBY
3 STEREO
NORMAL PHANTOM
■ TEST
QUARTZ LOCK
CH
MW
FM LW STEREO
M. SCAN
MEMORY
TAPE
kHz
MHz
VCR
1 2
LOUDNESS
MUTING
REAR CENTER
CENTER OFF
MIN
MAX


⑯
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㉑
㉒
㉓
㉔
㉕
+10
0
-10
40
20
0
(Hz) 40 63 100 160 250 400 630 1k 1.6k 2.5k 4k 6.3k 10k 12.5k 16k
P. EQ /TONE
OFF • TONE MODE • P.EQ MODE
• MANUAL
• FIXED
FINE
kHz
PRESET M
1 2 3 FLAT
DOLBY SURROUND
PRO • LOGIC
DOLBY
3 STEREO
NORMAL PHANTOM
■ TEST
QUARTZ LOCK
CH
MW
FM LW STEREO
M. SCAN
MEMORY
TAPE
kHz
MHz
VCR
1 2
LOUDNESS
MUTING
REAR CENTER
CENTER OFF
MIN
MAX

Display section

① FM stereo indicator (STEREO)

This indicator automatically illuminates when an FM stereo broadcast is being received.

Note:

It will not illuminate if the FM mode selector is set to the monaural mode.

② Spectrum analysis/parametric EQ level display (SPECTRUM ANALYZER/PARAMETRIC EQ)

This display shows the spectrum analysis level ("Bar-type display" or "Dot display") or equalization level.

③ Quartz-lock indicator (QUARTZ LOCK)

This indicator illuminates when the unit is tuned precisely to a broadcast station.

④ Channel display

This display shows the channel number selected by one of the preset-tuning buttons.

Also this display shows the channel number for about 3 seconds during memory scan operation.

⑤ Band indicators (FM, LW, MW)

Indicates the selected band.

⑥ Memory indicator (MEMORY)

This indicator illuminates when the memory button is pressed.

⑦ *Memory scan indicator (M. SCAN)*

This indicator illuminates when the memory scan button is pressed.

⑧ Audio input selector/frequency display (INPUT SELECTOR/FREQUENCY)

Displays the selected source or broadcast frequency.

⑨ Tape indicator (TAPE)

This indicator illuminates when the tape-monitor switch is pressed.

⑩ VCR display (VCR)

Displays the selected VCR.

⑪ Loudness indicator (LOUDNESS)

This indicator illuminates when the loudness switch is pressed.

⑫ Muting indicator (MUTING)

This indicator illuminates when the muting button (on the remote-control transmitter) is pressed.

⑬ Center mode indicators

These indicators show the center mode selected by the center mode select button.

⑭ Rear/center level indicator

Displays the level adjusted by the center speaker level adjustment buttons or rear speaker level adjustment buttons.

⑮ Test signal indicator (■ TEST)

This indicator illuminates when the test signal button is pressed in the Dolby Pro-Logic Surround mode and the Dolby 3 stereo mode.

⑯ Fine mode indicator (FINE)

This indicator illuminates when the fine mode select button is pressed in the parametric EQ mode.

⑰ Parametric EQ system center frequency display

It displays the center frequency of the curves in the parametric EQ mode arranged by the user with the parametric EQ system or the curves pre-programmed in this unit's memory.

⑱ Parametric EQ system off indicator (OFF)

This indicator illuminates when the parametric EQ system is off.

⑲ Tone mode indicator (TONE MODE)

This indicator illuminates when the parametric EQ/tone mode select button is set to the tone mode.

⑳ Parametric EQ mode indicator (P.EQ MODE)

This indicator illuminates when the parametric EQ/tone mode select button is set to the parametric EQ mode.

㉑ Parametric EQ system operation select indicators (MANUAL/FIXED)

One of these indicators will illuminate in accordance with the fixed preset button or equalization preset buttons setting.

㉒ Dolby 3 stereo indicator (DOLBY 3 STEREO)

This indicator illuminates when the Dolby 3 stereo ON/OFF button is switched ON.

㉓ Dolby Pro-Logic Surround indicator (DD DOLBY SURROUND, PRO-LOGIC)

This indicator illuminates when the Dolby Pro-Logic Surround ON/OFF button is switched ON.

㉔ Manual/fixed preset indicators (1 2 3 FLAT)

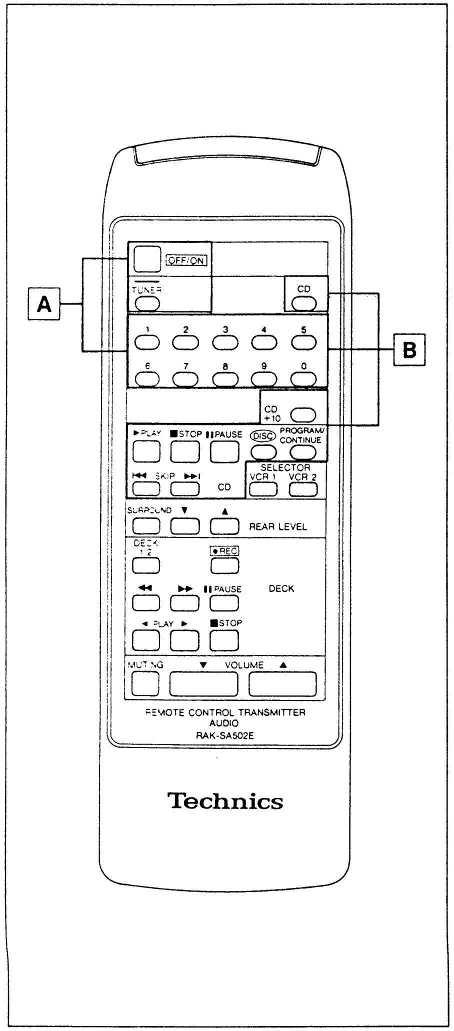
It displays the type of curve selected with the equalization preset buttons or fixed preset button in the parametric EQ mode.

㉕ Parametric EQ system memory indicator (M)

This indicator illuminates when the parametric EQ system memory button is pressed in the parametric EQ mode.

■ REMOTE-CONTROL OPERATION

- This remote-control transmitter can be used for control of a Technics cassette tape deck or a compact disc player with a remote-control terminal.
  Consult your dealer for details.
- For detailed information concerning operation steps, etc., please refer to the appropriate page for each unit and the respective operating instructions.
- For this system, you can listen to tapes or compact discs, etc., by operating the remote-control transmitter without using this unit's input selectors.
- Make sure that the power of each unit is set to the "ON" position, before beginning the operations.



A Tuner controls

TUNER
Press this button first to use the "OFF/ON" button or the 1 – 0 buttons.

OFF/ON
This button can be used for ON and OFF switching of this unit. When switching the power ON and OFF, be sure to first press the "TUNER" button.

1 – 0
Press these buttons to select the desired preset channel.
When these buttons are used, be sure to first press the "TUNER" button.
To designate channels 1 – 9:
Press the appropriate (1 – 9) preset-tuning button.
To designate channels 10 – 30:
① Press the button for the most significant digit (1, 2 or 3).
② Press the button for the least significant digit (1 – 0) within 2 seconds after pressing the first button.

Note:
If the interval between pressing the first button and pressing the second button is more than about 2 seconds, the setting may not be made correctly. If this happens, make the setting once again.

B Compact disc player controls

CD
Press this button first to use the 1 – +10 buttons.

1 – +10
Press these buttons to select the desired track.
Playback begins from the track selected.
When these buttons are used, be sure to first press the "CD" button.
Tracks 1∼9:
Press the appropriate numeric button 1 – 9 directly.
To select a two-digit track number over 10:
Press the +10 button the necessary number of time to select the "tens" digit, and then one of the 1 – 0 buttons to select the "units" digit.

PLAY
Press this button to start play.

STOP
Press this button to stop play.

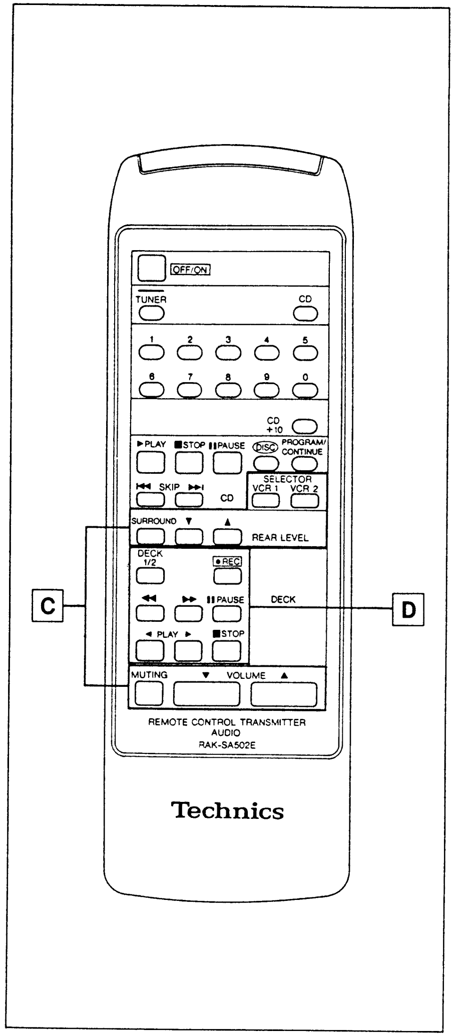
PAUSE
Press this button to temporarily stop play.
Press the play button to resume play.

DISC
If a Technics multi compact-disc player is used in combination with this unit, the disc to be played can be selected by first pressing this button and then pressing the appropriate numeric button (1 – 5).

PROGRAM/CONTINUE
Press to select the desired play mode.
("PROGRAM" or "CONTINUE")

SKIP
Press one of these buttons briefly to move the pick-up to the beginning of a specific track.

Note:
When operating a compact disc player with a remote-control sensor, face this remote-control transmitter toward the remote-control sensor of the compact disc player.



C Amplifier controls

SURROUND
Press this button to switch the Dolby Pro-Logic surround effect ON/OFF.

REAR LEVEL
Adjust the volume level of the rear speakers as desired.

SELECTOR
Press one of these buttons to switch this unit's input selector "VCR 1" or "VCR 2".

MUTING
Press this button to temporarily reduce the volume level.
The volume level is attenuated by 20 dB (approx. 1/10).
Press once again to return to the previous volume level.
To resume to the previous volume level from the main unit, press and hold the "PHONO" input selector for about 4 seconds.
(The unit will switch to the phono mode.)

VOLUME
Press one of these buttons to adjust the volume level.

D Tape deck controls

DECK 1/2
Press this button to select the deck ("DECK 1" or "DECK 2") to be controlled.

REC
Press this button to change to the recording stand-by mode.

◄◄, ►►
Press one of these buttons to advance or rewind the tape while the unit is in the stop mode.
Press one of these bottons to select the desired tune while the unit is in the play mode.

PAUSE
Press this button to temporarily stop playback or recording.
Press the playback button to resume the playback or recording.

PLAY
Press one of these buttons to begin playback or recording, pressing the button corresponding to the side of the tape to be played back (or recorded).
►: For the "forward (A)" side of the tape
◄: For the "reverse (B)" side of the tape

STOP
Press this button to stop tape movement.

Note:
Depending on which Technics tape deck is used in combination with this unit,
- "DECK 1" might be the "A"-side playback-only type.
- The pause and recording functions of "DECK 1" might not be possible.

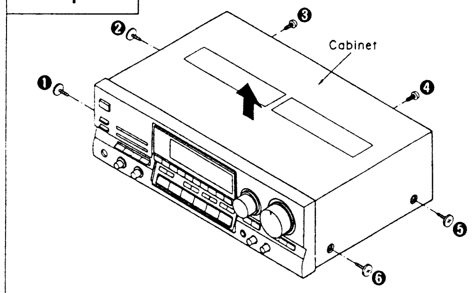
DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1

Removal of the cabinet

Procedure 1

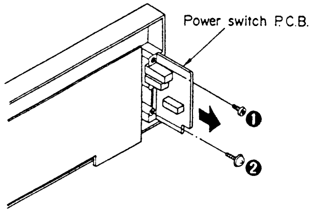

❶
❷
❸
❹
❺
❻
Cabinet

- Remove the 6 screws (❶~❻).

Ref. No. 3

Removal of the power switch P.C.B.

Procedure 1→2→3


Power switch P.C.B.
❶
❷

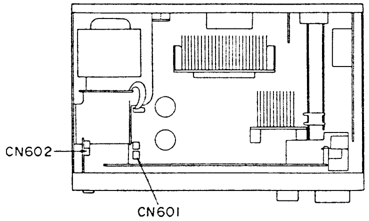
- Remove the 2 screws (❶, ❷).

Ref. No. 2

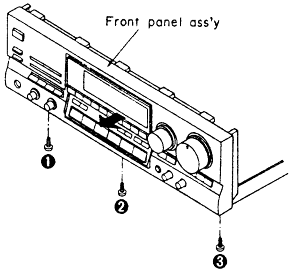
Removal of the front panel ass'y

Procedure 1→2

1. Remove the 2 flat cables (CN601, CN602).

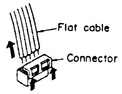

CN602
CN601

2. Remove the 3 screws (❶~❸).
3. Remove the front panel ass'y in the direction of arrow.


Front panel ass'y
❶
❷
❸

Removal of the flat cable

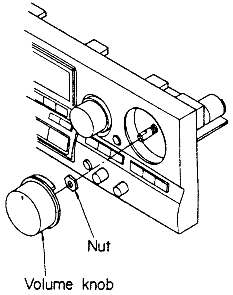
1. Lift the connector.
2. Pull out the flat cable.


Flat cable
Connector

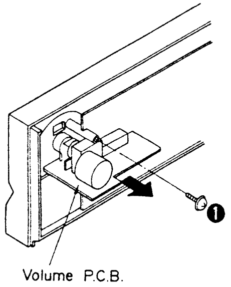
Ref. No. 4

Removal of the volume P.C.B.

Procedure 1→2→4


Nut
Volume knob

1. Pull out the volume knob.
2. Remove the nut.

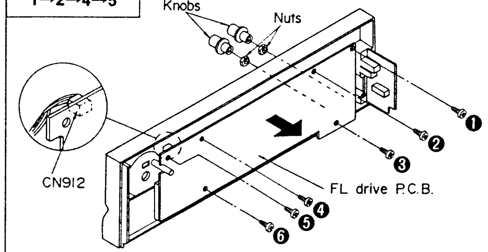

❶
Volume P.C.B.

3. Remove the 1 screw (❶).
4. Remove the volume P.C.B. in the direction of arrow.

Ref. No. 5

Removal of the FL drive P.C.B.

Procedure 1→2→4→5

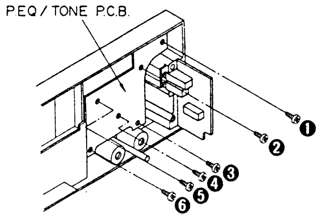

Knobs
Nuts
CN912
FL drive P.C.B.
❶
❷
❸
❹
❺
❻

1. Remove the 2 knobs.
2. Remove the 2 nuts.
3. Remove the 6 screws (❶~❻).
4. Remove the FL drive P.C.B in the direction of arrow.
5. Remove the 1 flat cable (CN912).

Ref. No. 7

Removal of the P. EQ/TONE P.C.B.

Procedure 1→2→4→5→7

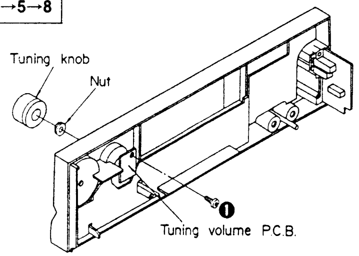

PEQ / TONE P.C.B.
❶
❷
❸
❹
❺
❻

- Remove the 6 screws (❶~❻).

Ref. No. 8

Removal of the tuning volume P.C.B.

Procedure 1→2→4→5→8

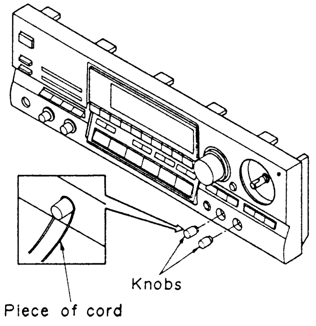

Tuning knob
Nut
❶
Tuning volume P.C.B.

1. Pull out the tuning knob.
2. Remove the nut.
3. Remove the 1 screw (❶).

Ref. No. 6

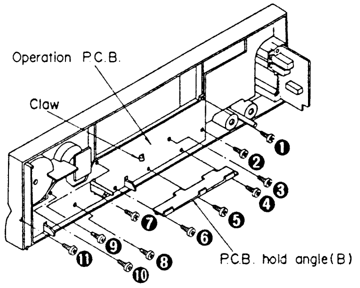
Removal of the operation P.C.B.

Procedure 1→2→4→5→6


Knobs
Piece of cord

※ If the knob is difficult to remove, wrap a piece of cord or something similar around it to remove it.

1. Remove the 2 knobs.

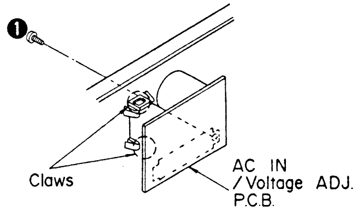

Operation P.C.B.
Claw
❶
❷
❸
❹
❺
❻
❼
❽
❾
❿
⓫
P.C.B. hold angle(B)

2. Remove the 11 screws (❶~⓫).
3. Remove the P.C.B. hold angle (B).
4. Remove the 1 claw.

Ref. No. 9

Removal of the AC IN/voltage adj. P.C.B.

Procedure 1→9

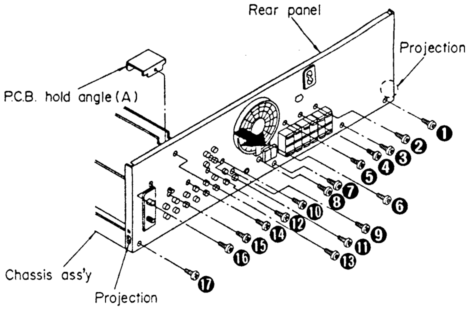

❶
Claws
AC IN
/Voltage ADJ.
P.C.B.

1. Remove the 1 screw (❶).
2. Release the 2 claws.

Ref. No. 10

Removal of the rear panel

Procedure 1→10

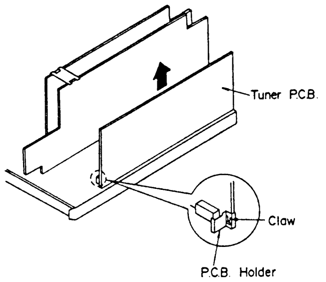

Rear panel
Projection
P.C.B. hold angle (A)
❶
❷
❸
❹
❺
❻
❼
❽
❾
❿
⓫
⓬
⓭
⓮
⓯
⓰
⓱
Chassis ass'y
Projection

1. Remove the 17 screws (❶~⓱).
2. Remove the P.C.B. hold angle (A).
3. Remove the rear panel from the projection of the chassis ass'y.

Ref. No. 11

Removal of the tuner P.C.B.

Procedure 1→2→10→11

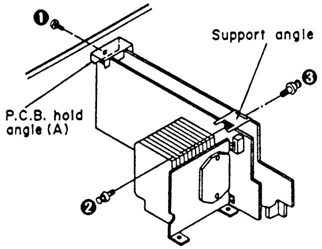

Tuner P.C.B.
Claw
P.C.B. Holder

1. Release the 1 claw.
2. Remove the tuner P.C.B. in the direction of arrow.

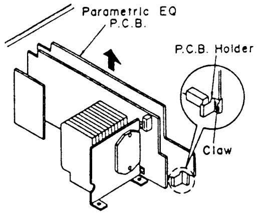
Ref. No. 12

Removal of the parametric EQ P.C.B.

Procedure 1→2→12


❶
Support angle
❸
P.C.B. hold angle (A)
❷

1. Remove the 1 screw (❶).
2. Remove the P.C.B. hold angle (A).
3. Remove the 2 latches (❷, ❸).
4. Remove the support angle.

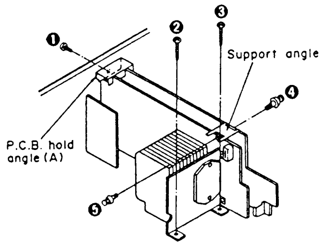

Parametric EQ P.C.B.
P.C.B. Holder
Claw

5. Release the 1 claw.
6. Remove the parametric EQ P.C.B. in the direction of arrow.

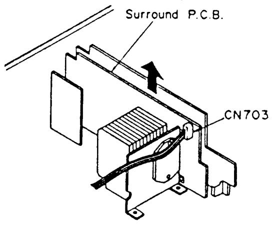
Ref. No. 13

Removal of the surround P.C.B.

Procedure 1→2→13


❶
❷
❸
Support angle
❹
P.C.B. hold angle (A)
❺

1. Remove the 3 screws (❶~❸).
2. Remove the P.C.B. hold angle (A).
3. Remove the 2 latches (❹, ❺).
4. Remove the support angle.

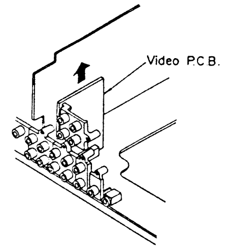

Surround P.C.B.
CN703

5. Remove the 1 flat cable (CN703).
6. Remove the surround P.C.B. in the direction of arrow.

Ref. No. 14

Removal of the video P.C.B.

Procedure 1→2→10→14

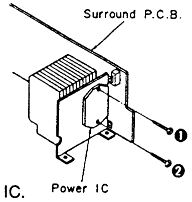


- Remove the video P.C.B. in the direction of arrow.

Ref. No. 15

Removal of the power IC

Procedure 1→2→13→15


Surround P.C.B.
❶
❷
Power IC

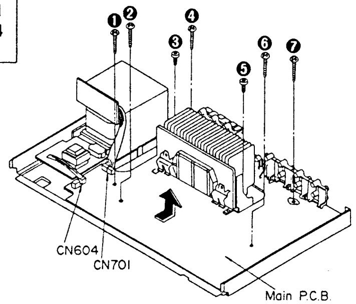
1. Unsolder the power IC.
2. Remove the 2 screws (❶, ❷).

- When mounting the power IC, apply silicon thermal compound (RFKX0002 or equivalent) to the rear of the power IC.

Ref. No. 16

Removal of the main P.C.B.

Procedure 1→2→10→11 →12→13→14 →16

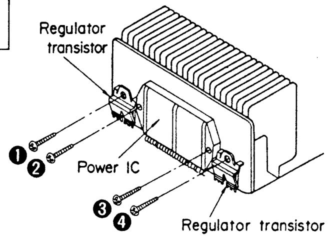

❶
❷
❸
❹
❺
❻
❼
CN604
CN701
Main P.C.B.

1. Remove the 2 flat cables (CN604, CN701).
2. Remove the 7 screws (❶~❼).
3. Remove the main P.C.B. in the direction of arrow.

Ref. No. 17

Removal of the power IC and regulator transistor

Procedure 1→2→10→11 →12→13→14 →16→17


Regulator transistor
❶
❷
Power IC
❸
❹
Regulator transistor

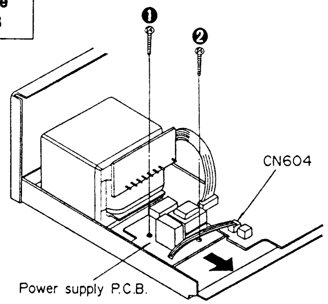
1. Unsolder the power IC or regulator transistor.
2. Remove the 4 screws (❶~❹).

- **When mounting the power IC or regulator transistor.** Apply silicone compound (RFKX0002) to the rear side of power IC or regulator transistor.

Ref. No. 18

Removal of the power supply P.C.B.

Procedure 1→2→18

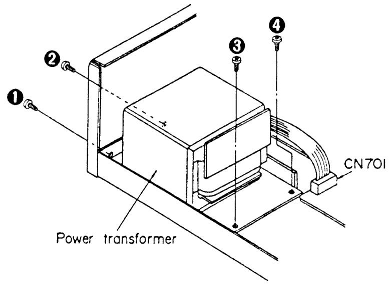

❶
❷
CN604
Power supply P.C.B.

1. Remove the 1 flat cable (CN604).
2. Remove the 2 screws (❶, ❷).
3. Remove the power supply P.C.B. in the direction of arrow.

Ref. No. 19

Removal of the power transformer

Procedure 1→2→18→19

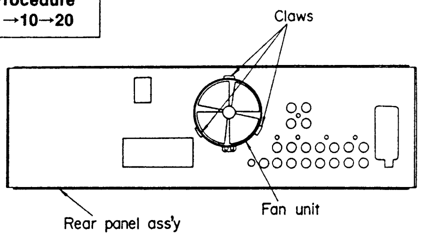

❷
❶
❸
❹
CN701
Power transformer

1. Remove the 1 flat cable (CN701).
2. Remove the 4 screws (❶~❹).

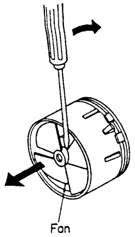
Ref. No. 20

Procedure 1→10→20

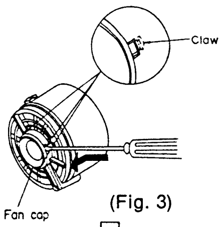
Removal of the fan motor


Claws
Rear panel ass'y
Fan unit

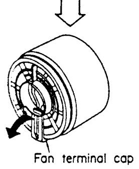
(Fig. 1)



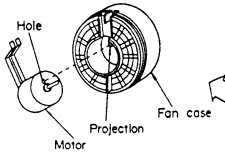
(Fig. 2)


Claw
Fan cap

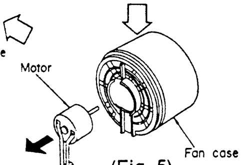
(Fig. 3)


Fan terminal cap

(Fig. 4)


Hole
Projection
Fan case
Motor

(Fig. 6)


Motor
Fan case

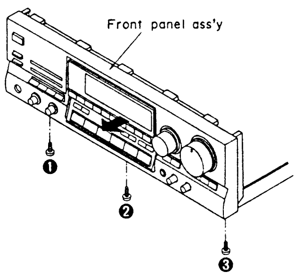
(Fig. 5)

1. Release the 3 claws. (See **Fig. 1**)
2. Insert a screwdriver at the root of the fan. Force it out of the motor shaft. (See **Fig. 2**)
3. Remove the fan cap by used ⊖ screwdriver. (See **Fig. 3**)
4. Remove the fan terminal cap in the direction of arrow. (See **Fig. 4**).
5. Remove the motor from the fan case. (See **Fig. 5**).
6. When mounting the motor, align the fan casing's projection with the hole of the motor. (See **Fig. 6**).

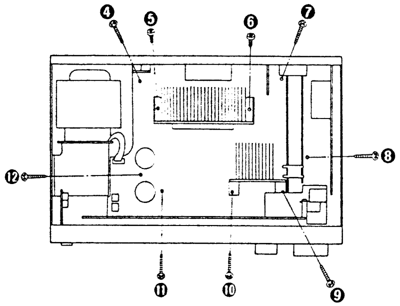
Ref. No. 21

Procedure 1→21

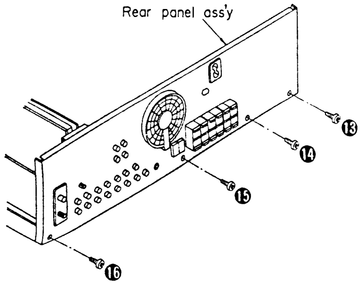
How to check the main P.C.B.


Front panel ass'y
❶
❷
❸

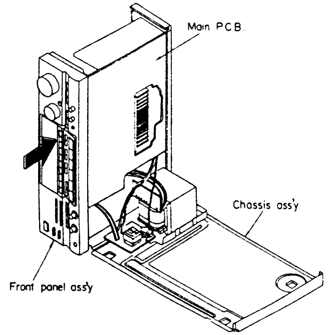
1. Remove the 3 screws (❶~❸).
2. Remove the front panel ass'y in the direction of arrow.



3. Remove the 9 screws (❹~⓬).


Rear panel ass'y
⓭
⓮
⓯
⓰

4. Remove the 4 screws (⓭~⓰).


Main P.C.B.
Chassis ass'y
Front panel ass'y

5. Remove the chassis ass'y.
6. Reinstall the front panel ass'y to the main P.C.B.

■ MEASUREMENTS AND ADJUSTMENTS

Note: For Z201 (AM (MW/LW) ANT and OSC coil), Z202 (AM (MW/LW)-IFT), they are supplied as adjusted parts. So, do not turn the cores of the parts. It is not necessary to adjust the AM (MW/LW) circuit.

• FM ADJUSTMENT

Control positions and equipment used

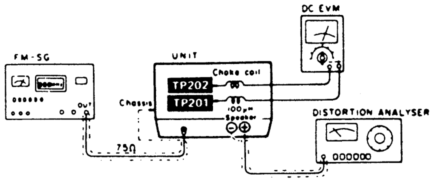
- FM signal generator (FM-SG).
- Distortion analyser
- Oscilloscope
- DC electronic voltmeter (DC EVM)
- Frequency counter
- Choke coil (100μH)
- Resistor (100kΩ)

FM MONO DISTORTION ADJUSTMENT

1. Test equipment connection is shown in figure.
2. Set the unit to "**FM**" position.
3. Set the radio frequency display and signal generator to **100.10MHz.**
4. Adjust **T201** core so that voltage measured in signal mode is **0mV** (0±20mV) in **300mV** range.
5. Adjust **T202** so that the distortion factor of Lch is minimized.
6. Repeat steps 4 and 5 a few times.
7. Make sure that the distortion factors of Lch and Rch are nearly the same with each other to minimum.

Note:
The adjusting screwdriver used should be made of resin.

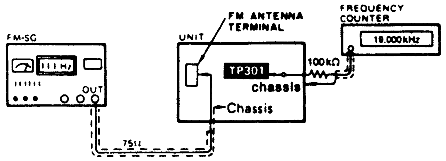
FM SIGNAL GENERATOR CONDITION
Modulation 100%
Modulation frequency.......1kHz (MONO)
Output level........................66dB


FM-SG
OUT
UNIT
Choke coil
TP202
TP201
Chassis
100μH
Speaker
⊖⊕
75Ω
DC EVM
DISTORTION ANALYSER

FM MPX VCO ADJUSTMENT

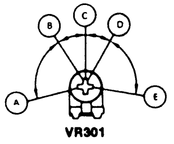
1. Test equipment connection is shown in figure.
2. Set the unit to "**FM auto**" position.
3. Set the radio frequency display and signal generator to **100.10MHz.**
4. Adjust **VR301** for **19.00±0.03kHz** on frequency counter reading.

FM SIGNAL GENERATOR CONDITION
Modulation ....0% (non-modulation)
Output level........................66dB


FM-SG
OUT
UNIT
FM ANTENNA TERMINAL
TP301
chassis
Chassis
100kΩ
FREQUENCY COUNTER
19.000kHz
75Ω

★USING ALTERNATE SYSTEM

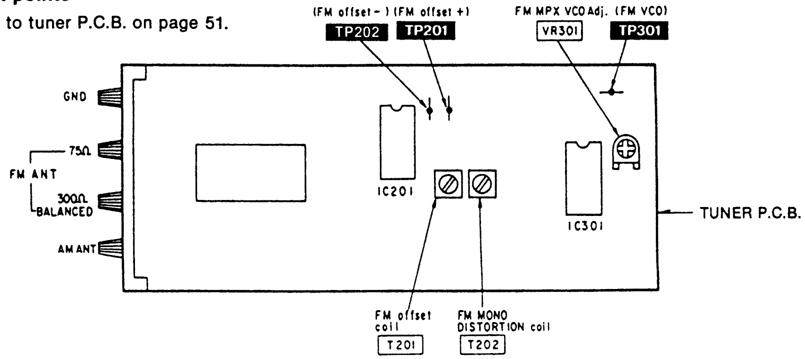
1. Apply stereo signal from generator or receive the stereo broadcast.
2. Adjust **VR301** until stereo indicator lights up. Cement arm of **VR301** as shown in figure.



Ⓐ – Ⓑ Ⓓ – Ⓔ : Stereo OFF position
Ⓑ – Ⓓ : Stereo ON position (indicator lighting)
Ⓒ : Adjust point of Pilot circuit

• Adjustment points

Please refer to tuner P.C.B. on page 51.


(FM offset −)
(FM offset +)
TP202
TP201
FM MPX VCO Adj.
(FM VCO)
VR301
TP301
GND
75Ω
FM ANT
300Ω BALANCED
AM ANT
IC201
IC301
TUNER P.C.B.
FM offset coil
T201
FM MONO DISTORTION coil
T202

■TERMINAL FUNCTION OF IC'S

• IC801 (M50946-150FP): Microcomputer

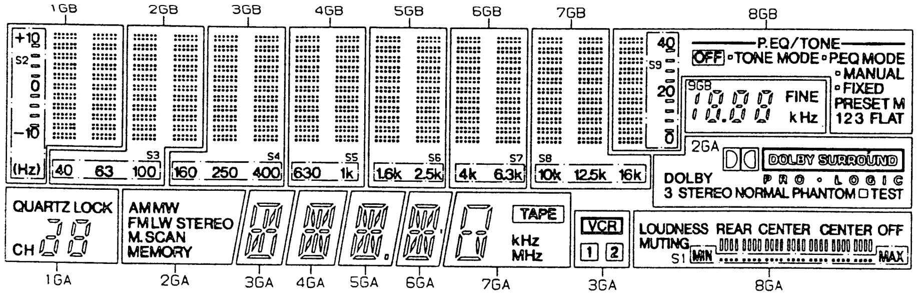
Pin No.	Mark	I/O Division	Function
1	f6	I	Spectrum analyzer signal
2	f7		
3	KIN	I	Key return signal
4	NC	—	Not connected
5 ~ 8	KS1/DIGA ~ KS4/DIGD	O	Key scan signal and digit signal to FL display
9	CURSW	—	Not used, connected to resistor
10	SEL MUTE		
11	EQSW	O	Equalizer selector control terminal
12	DT	O	Serial data signal
13	CK	O	Serial clock signal
14	ST	—	Not used, connected to resistor
15	CE	O	Chip enable terminal
16	BCK	—	Not used, connected to resistor
17	WCK		
18	CD		
19	NO SIGNAL	I	Mixing signal level detect terminal
20	HOLD	I	Power failure detect terminal
21	CNVss	—	GND terminal
22	RST	I	Reset detect terminal
23	NC	—	Not connected
24	NC		
25	Xin	I	Crystal oscillator terminal (6MHz)
26	Xout	O	
27	Xcin	—	Not used, connected to GND
28	Xcout	—	Not used, open
29	Vss	—	GND terminal
30	NC	—	Not connected
31	LVLA	I	Frequency level or high-frequency sound detect terminal
32	LVLB		
33	FRGA	I	Center frequency or low-frequency sound detect terminal
34	FRGB		
35	NC	—	Not connected
36	Vp	I	Power supply terminal to FL display
37	MUTE	I	Muting detect terminal
38 ~ 54	S7 ~ S23	O	Segment signal to FL display
55	NC	—	Not connected
56	NC		
57 ~ 62	S1 ~ S6	O	Segment signal to FL display
63	AVcc	I	Power supply terminal
64	Vdd		
65	Vss	—	GND terminal
66	AVss		
67	Vref	I	Power supply terminal
68 ~ 72	f1 ~ f5	I	Spectrum analyzer signal

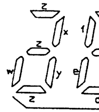
• IC901 (MN187125STU): Microcomputer

Pin No.	Mark	I/O Division	Function
1 ~ 7	S0 ~ S6	O	Segment signal to FL display
8	Vpp	I	Power supply terminal to FL display
9	Vdd	I	Power supply terminal
10	OSC2	O	Crystal oscillator terminal (4.19MHz)
11	OSC1	I	
12	Vss	—	GND terminal
13	XI	—	Not used, connected to GND
14	XO	—	Not used, open
15	KEY2	I	Key return signal
16	KEY1		
17	SD	I	Received signal detect terminal
18	FM ST	I	Stereo signal detect terminal
19	F	O	Sense of rotation for volume motor control terminal
20	R		
21	5-6	—	Not used, connected to resistor
22	ST3	O	Level shift control terminal
23	REMOTE	I	Remote control terminal
24	TEIDEN	I	Service interruption detect terminal
25	ST1	O	Level shift control terminal
26	OFF	—	Not used, connected to GND
27	RLY	O	Relay control terminal
28	ST2	O	Level shift control terminal
29	RESET	I	Reset detect terminal
30	CK1	O	Serial clock signal
31	CE	O	Chip enable terminal
32	DATA1	O	Serial data signal
33	CK2	O	Serial clock signal
34	DATA2	O	Serial data signal
35	DAC STOP/EIZOU	O	Video selector control terminal
36	SYNC	—	Not used, open
37	CM	—	Not used, connected to GND
38	3ST	—	Not used, connected to resistor
39	FM mono	O	Forcible monaural signal
40	RFM	O	Muting control to tuner circuit
41	A	I	Rotary tuning control terminal
42	B		
43 ~ 45	KS1 ~ KS3	O	Key scan signal
46 ~ 53	DGT0 ~ DGT7	O	Digit signal to FL display
54	initial	I	Serial data detect terminal
55	DAC/sur	O	Muting control signal
56	lou	O	Loudness control signal
57	AFM	O	Muting control to amplifier circuit
58	−20dB	O	Muting control (−20dB) to amplifier circuit
59 ~ 64	S7 ~ S12	O	Segment signal to FL display

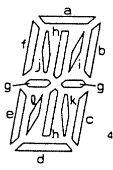
■ INTERNAL CONNECTION OF FL

• Grid connection diagram

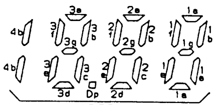

1GB
2GB
3GB
4GB
5GB
6GB
7GB
8GB
+10
S2
0
−10
(Hz)
40
63
100
S3
160
250
400
S4
630
1k
S5
1.6k
2.5k
S6
4k
6.3k
S7
S8
10k
12.5k
16k
40
S9
20
0
P.EQ/TONE
OFF
TONE MODE
P.EQ MODE
MANUAL
FIXED
PRESET M
1 2 3 FLAT
9GB
FINE
kHz
2GA
DOLBY SURROUND
PRO • LOGIC
DOLBY
3 STEREO NORMAL PHANTOM
TEST
QUARTZ LOCK
CH
AM MW
FM LW STEREO
M.SCAN
MEMORY
TAPE
kHz
MHz
VCR
1
2
LOUDNESS REAR CENTER CENTER OFF
MUTING
S1
MIN
MAX
1GA
2GA
3GA
4GA
5GA
6GA
7GA
3GA
8GA


z
a
x
g
b
w
y
e
c
d

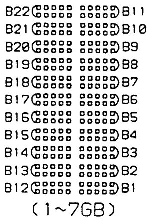
(1GA)



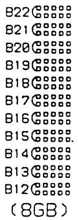
(3~7GA)


3e
2e
1e
4b
3g
2g
1g
4c
3d
Dp
2d
1a

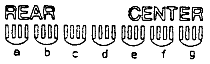
(9GB)


B22
B21
B20
B19
B18
B17
B16
B15
B14
B13
B12
B11
B10
B9
B8
B7
B6
B5
B4
B3
B2
B1

(1~7GB)


B22
B21
B20
B19
B18
B17
B16
B15
B14
B13
B12

(8GB)


REAR
CENTER
a
b
c
d
e
f
g

(8GA)

• Pin connection

62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32
F2	F2	F2	NP	1GA	2GA	3GA	4GA	5GA	6GA	7GA	8GA	P13A	P12A	P11A	P10A	P9A	P8A	P7A	P6A	P5A	P4A	P3A	P2A	P1A	P23B	P22B	P21B	P20B	P19B	P18B

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
P17B	P16B	P15B	P14B	P13B	P12B	P11B	P10B	P9B	P8B	P7B	P6B	P5B	P4B	P3B	P2B	P1B	1GB	2GB	3GB	4GB	5GB	6GB	7GB	8GB	9GB	NP	NP	F1	F1	F1

• Anode connection table (A)

	1GA	2GA	3GA	4GA	5GA	6GA	7GA	8GA
P1A	a	NORMAL	a	a	a	a	a	S1
P2A	x	PHANTOM	i , ℓ	j	j	j	_	a
P3A	y	AM	h	h	h	h	TAPE	b
P4A	z	MW	1	i	i	i	_	c
P5A	f	FM	f	f	f	f	f	d
P6A	b	LW	b	b	b	b	b	e
P7A	g	DOLBY SURROUND	g	g	g	g	g	f
P8A	e	PRO • LOGIC	e	e	e	e	e	g
P9A	c	M.SCAN	c	c	c	c	c	MUTING
P10A	w	MEMORY	2	ℓ	ℓ	ℓ	kHz	LOUDNESS
P11A	d	DOLBY 3 STEREO	d	d	d	d	d	REAR
P12A	QUARTZ LOCK	☐TEST	VCR	k	k	k	k	CENTER
P13A	CH	STEREO (LW)	–	–	o	–	MHz	CENTER OFF

• Anode connection table (B)

	1GB	2GB	3GB	4GB	5GB	6GB	7GB	8GB	9GB
P1B	S2	S3	S4	S5	S6	S7	S8	S9 —P.EQ/TONE—	Hz
P2B	B1	B1	B1	B1	B1	B1	B1	M	Dp k
P3B	B2	B2	B2	B2	B2	B2	B2	PRESET	FINE
P4B	B3	B3	B3	B3	B3	B3	B3	▫FIXED	1a
P5B	B4	B4	B4	B4	B4	B4	B4	▫MANUAL	1b
P6B	B5	B5	B5	B5	B5	B5	B5	3	1e
P7B	B6	B6	B6	B6	B6	B6	B6	2	1f
P8B	B7	B7	B7	B7	B7	B7	B7	1	1g
P9B	B8	B8	B8	B8	B8	B8	B8	FLAT	2c
P10B	B9	B9	B9	B9	B9	B9	B9	▫P.EQ MODE	2b
P11B	B10	B10	B10	B10	B10	B10	B10	▫TONE MODE	2d
P12B	B11	B11	B11	B11	B11	B11	B11	OFF	2g
P13B	B12	B12	B12	B12	B12	B12	B12	B12	2a
P14B	B13	B13	B13	B13	B13	B13	B13	B13	2e
P15B	B14	B14	B14	B14	B14	B14	B14	B14	2f
P16B	B15	B15	B15	B15	B15	B15	B15	B15	3c
P17B	B16	B16	B16	B16	B16	B16	B16	B16	3b
P18B	B17	B17	B17	B17	B17	B17	B17	B17	3d
P19B	B18	B18	B18	B18	B18	B18	B18	B18	3g
P20B	B19	B19	B19	B19	B19	B19	B19	B19	3a
P21B	B20	B20	B20	B20	B20	B20	B20	B20	3e
P22B	B21	B21	B21	B21	B21	B21	B21	B21	3f
P23B	B22	B22	B22	B22	B22	B22	B22	B22	4b

■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:

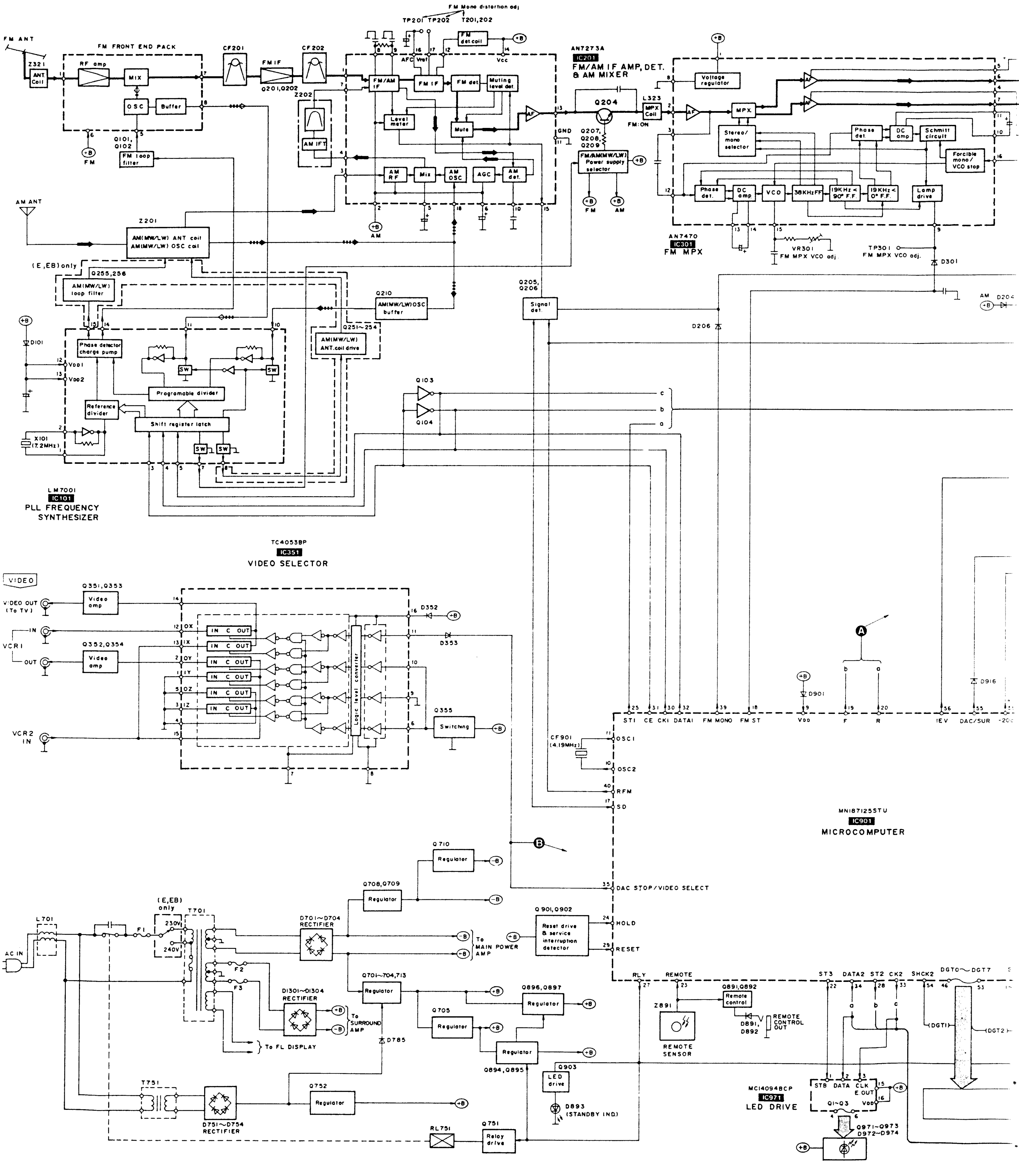
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

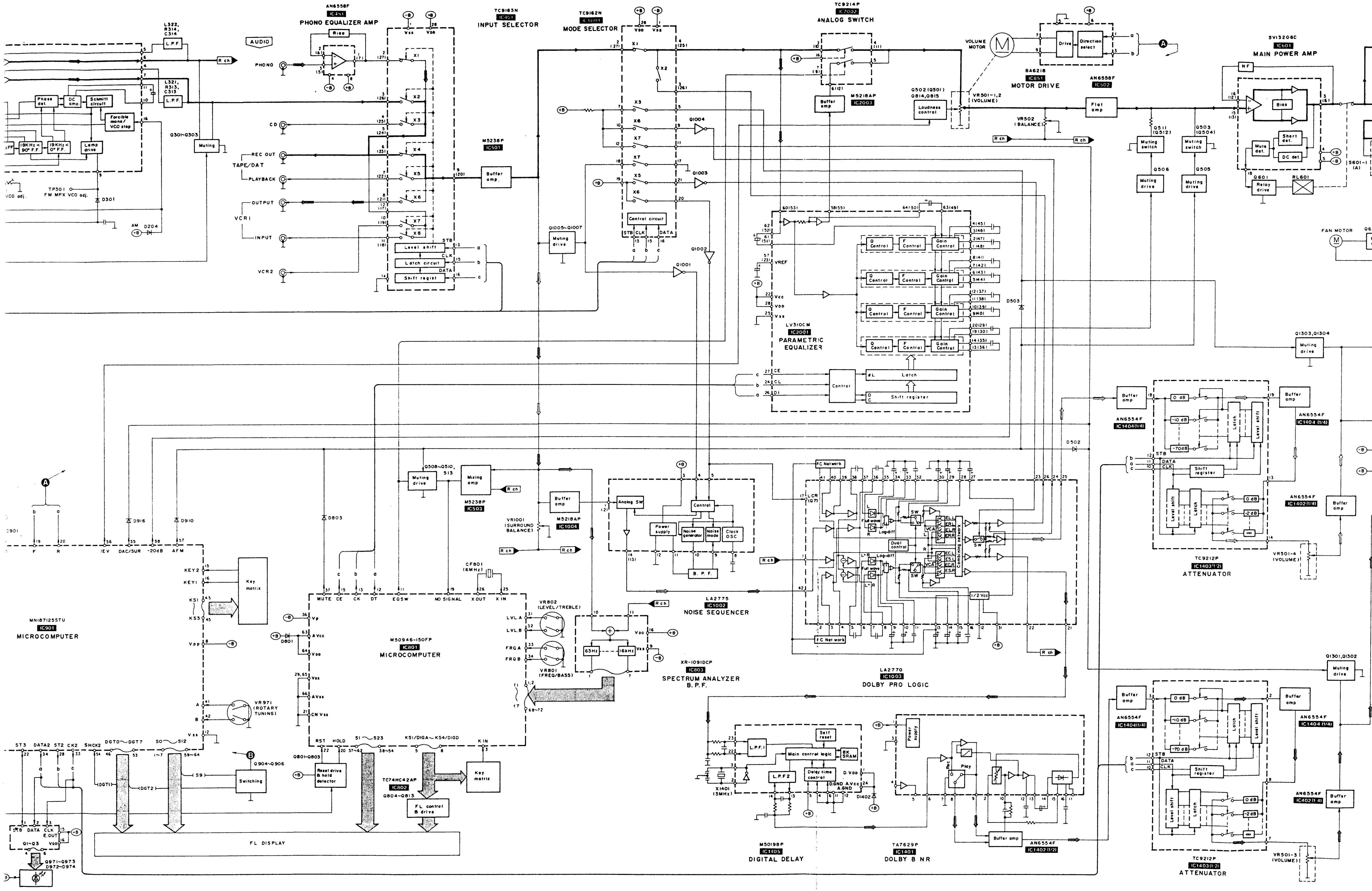
■ BEFORE REPAIR AND ADJUSTMENT

Disconnect AC power, Discharge both Power Supply Capacitors C701 and C702 through a 10Ω, 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may distroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at 230V/240V, 50/60Hz in NO SIGNAL mode should be shown below.

Power supply voltage	AC 230V	AC 240V
Consumed current 50Hz	0.29~0.55A	0.28~0.52A
Consumed current 60Hz	0.26~0.50A	0.25~0.47A

BLOCK DIAGRAM


FM Mono distortion adj
TP201 TP202 T201,202
FM ANT
Z321
ANT. Coil
FM FRONT END PACK
RF amp
MIX
OSC
Buffer
Q101, Q102
FM loop filter
FM
CF201
FM IF
Q201,Q202
CF202
Z202
AM IFT
AFC Vref
FM det.coil
Vcc
FM/AM IF
FM IF
FM det
Muting level det.
Level meter
Mute
AF
AM RF
Mix
AM OSC
AGC
AM det.
AM
GND
AN7273A
IC201
FM/AM IF AMP, DET. & AM MIXER
Q204
Q207, Q208, Q209
FM/AM(MW/LW) Power supply selector
FM
AM
L323
MPX Coil
FM:ON
Voltage regulator
AF
MPX
Stereo/ mono selector
Phase det.
DC amp
Schmitt circuit
Forcible mono/ VCO stop
Phase det.
DC amp
VCO
38KHz FF
19KHz < 90° F.F.
19KHz < 0° F.F.
Lamp drive
AN7470
IC301
FM MPX
VR301
FM MPX VCO adj
TP301
FM MPX VCO adj.
D301
AM
D204
AM ANT
Z201
AM(MW/LW) ANT coil
AM(MW/LW) OSC coil
(E,EB) only
Q255,256
AM(MW/LW) loop filter
Q210
AM(MW/LW)OSC buffer
Q251~254
AM(MW/LW) ANT.coil drive
Q205, Q206
Signal det.
D206
D101
Phase detector charge pump
VDD1
VDD2
SW
SW
Programable divider
Reference divider
Shift register latch
X101 (7.2MHz)
SW
SW
LM7001
IC101
PLL FREQUENCY SYNTHESIZER
Q103
Q104
c
b
a
TC4053BP
IC351
VIDEO SELECTOR
VIDEO
Q351,Q353
VIDEO OUT (To TV)
Video amp
VCR1
IN
OUT
Q352,Q354
Video amp
VCR2 IN
OX
IX
OY
IY
OZ
IZ
IN C OUT
Logic level converter
D352
D353
Q355
Switching
A
b
a
D901
D916
STI
CE
CKI
DATAI
FM MONO
FM ST
VDD
F
R
IEV
DAC/SUR
CF901 (4.19MHz)
OSC1
OSC2
RFM
SD
MN187125STU
IC901
MICROCOMPUTER
B
Q710
Regulator
Q708,Q709
Regulator
DAC STOP/VIDEO SELECT
Q901,Q902
Reset drive & service interruption detector
HOLD
RESET
L701
AC IN
(E,EB) only
T701
230V
240V
F1
F2
F3
D701~D704 RECTIFIER
To MAIN POWER AMP
Q701~704,713
Regulator
D1301~D1304 RECTIFIER
To SURROUND AMP
To FL DISPLAY
D785
Q896,Q897
Regulator
Q705
Regulator
Regulator
Q894,Q895
Q903
LED drive
D893 (STANDBY IND.)
RLY
REMOTE
Z891
REMOTE SENSOR
Q891,Q892
Remote control
D891, D892
REMOTE CONTROL OUT
ST3
DATA2
ST2
CK2
SHCK2
DGT0~DGT7
(DGT1)
(DGT2)
STB
DATA
CLK
E OUT
Q1~Q3
VDD
MC14094BCP
IC971
LED DRIVE
Q971~Q973
D972~D974
T751
D751~D754 RECTIFIER
Q752
Regulator
RL751
Q751
Relay drive


AUDIO
AN6558F IC351 PHONO EQUALIZER AMP
TC9163N IC451 INPUT SELECTOR
TC9162N IC1001 MODE SELECTOR
TC9214P IC7002 ANALOG SWITCH
VOLUME MOTOR
BA6218 IC851 MOTOR DRIVE
AN6558F IC502
SVI3206C IC601 MAIN POWER AMP
HEADPHONES
FRONT
SPEAKERS(4~6/8Ω)
PHONO
CD
REC OUT
TAPE/DAT
PLAYBACK
OUTPUT
VCR1
INPUT
VCR2
L.P.F
Phase det.
DC amp
Schmitt circuit
Forcible mono/VCO stop
Lamp drive
Muting
Q301~Q303
TP301 FM MPX VCO adj.
D301
D204
Level shift
Latch circuit
Shift regist
M5238P IC501
Buffer amp.
Control circuit
Q1005~Q1007 Muting drive
Q1004
Q1003
Q1002
Q1001
M5218AP IC2001
Buffer amp
Loudness control
Q502(Q501) Q814,Q815
VR501-1,2 (VOLUME)
VR502 (BALANCE)
Flat amp
Q511 (Q512) Muting switch
Q503 (Q504) Muting switch
Q506 Muting drive
Q505 Muting drive
Bias
Short det.
Mute det.
DC det
Q601 Relay drive
RL601
S601-1 (A)
S601-2 (B)
ON
OFF
FAN MOTOR
Q651~655 Motor drive
D651
LV3310CM IC2001 PARAMETRIC EQUALIZER
Q Control
F Control
Gain Control
Control
Latch
Shift register
D503
Q1303,Q1304 Muting drive
CENTER OUT
Buffer amp
AN6554F IC1404(1/4)
AN6554F IC1402(1/4)
TC9212P IC1403(1/2) ATTENUATOR
0 dB
-10 dB
-70dB
-2dB
Latch
Level shift
Shift register
VR501-4 (VOLUME)
SVI3101C IC1301 SURROUND POWER AMP
NF
Drive
Power
Muting
Detector
Power ON/OFF
CENTER SPEAKER
REAR
REAR SPEAKERS
Lch
Rch
MN187125STU IC901 MICROCOMPUTER
Key matrix
VR971 (ROTARY TUNING)
Q904~Q906 Switching
Q971~Q973 Q972~Q974
FL DISPLAY
D916
D910
D803
D801
Q508~Q510, 513 Muting drive
Mixing amp
M5238P IC503
VR1001 (SURROUND BALANCE)
M5218AP IC1004
CF801 (6MHz)
M50946-150FP IC801 MICROCOMPUTER
VR802 (LEVEL/TREBLE)
VR801 (FREQ/BASS)
Q801~Q803 Reset drive & hold detector
TC74HC42AP IC802
Q804~Q813 FL control & drive
XR-1091DCP IC803 SPECTRUM ANALYZER B.P.F.
63Hz
16kHz
Analog SW
Power supply
Noise generator
Noise mode
Clock OSC
B.P.F.
LA2775 IC1002 NOISE SEQUENCER
FC Network
Full wave
Log-diff
Dual control
VCA
Combining network
1/2 Vcc
LA2770 IC1003 DOLBY PRO LOGIC
D502
Q1301,Q1302 Muting drive
AN6554F IC1404(1/4)
TC9212P IC1403(1/2) ATTENUATOR
AN6554F IC1402(1/4)
VR501-3 (VOLUME)
Self reset
L.P.F.1
L.P.F.2
Main control logic
8K SRAM
Delay time control
X1401 (3MHz)
D1402
M50198P IC1405 DIGITAL DELAY
Power supply
Rec
Play
Buffer amp
AN6554F IC1402(1/2)
TA7629P IC1401 DOLBY B NR
R ch

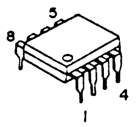
Note:

- ▬▶ FM Signal
- ▭▭▭▷ FM OSC
- ━━▶ AM (MW/LW) Signal
- ■■■▶ AM (MW/LW) OSC
- ⇒ Rec out signal
- ⇒ Center speaker drive signal
- ⇒ Rear speaker drive signal
- ⇒ P. equalizer signal
- ⇒ Spectrum analyzer signal

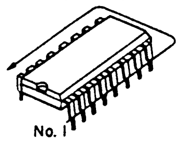
* (　　) indicates Pin No. of right channel.

■TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

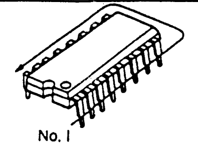
M5218AP

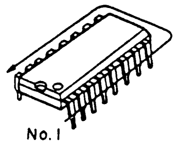


M5238P	8 Pin
XR-1091DCP	16 Pin

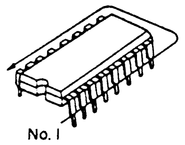


AN6554F	14 Pin
LM7001	16 Pin



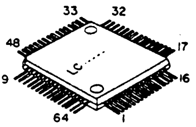


AN6558F	8 Pin
AN7470	16 Pin
MC14094BCP	16 Pin
AN7273A	18 Pin
LA2775	14 Pin

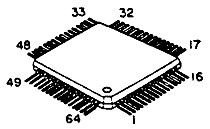


TA7629P	16 Pin	M50198P	24 Pin
TC4053BP	16 Pin	TC9163N	28 Pin
TC74HC42AP	16 Pin	TC9162N	28 Pin
TC9214P	16 Pin	LA2770	42 Pin
TC9212P	20 Pin		

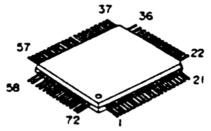
LV3100M



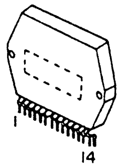
MN187125STU



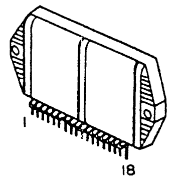
M50946-150FP



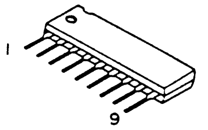
SVI3101C



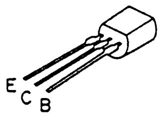
SVI3206C



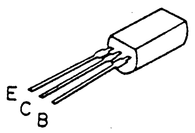
BA6218

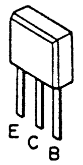


2SA720NCQR
2SA992EFTA
2SC2631QRSTA



2SC3940AQSTA

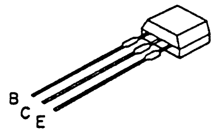




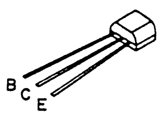
2SA1309AQSTA
2SC2785FETA
2SC2787LTA
2SC3311AQSTA
2SD1450QRSTA
UN4111TA

UN4113TA
UN4115TA
UN4211TA
UN4214TA
UN4215TA

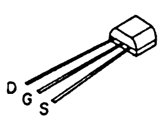
2SA933SQRSTA
2SC1740SQSTA



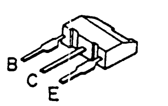
2SC3327ABTP



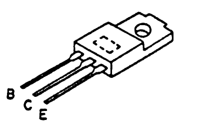
2SJ40CDTA



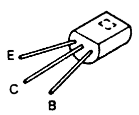
2SB1240PRTV6

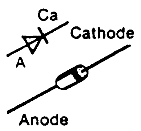


2SB1187DEF
2SD1761DEF

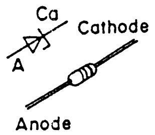


2SB621AQRSTA



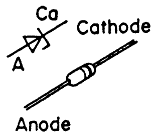


MA29WATA
MA165TA
MA700ATA
1SS291TA
1SR35200TB

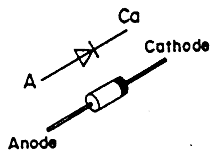


MA4030MTA
MA4056MTA
MA4062MTA
MA4068MTA
MA4082MTA

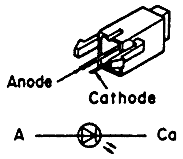
MA4120MTA
MA4160LTA
MA4330MTA



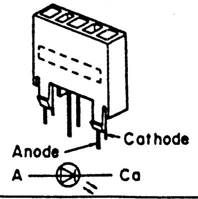
P300DLF
GP15GLF



LN018304P



LN031527PH



■SCHEMATIC DIAGRAM (This schematic diagram may be modified at any time with the development of new technology.)

(Parts list on pages 61~68.)

Note 1:

- S601 : Speaker selector (SPEAKERS) switches.
  [S601-1: A, S601-2: B]
- S703 : Voltage selector (VOLT ADJ.)
  (230V−240V): For (E, EB) areas.
- S801 : Display mode select (-DISPLAY MODE, -DEMO) switch.
- S802~805: Parametric EQ band select switches.
  [S802: EQ1, S803: EQ2, S804: EQ3
  S805: EQ4]
- S806 : Parametric EQ system ON/OFF (P. EQ SYS) switch.
- S807 : Fine mode select (FINE) switch.
- S808 : Slope changeover [SLOPE (Q)] switch.
- S809 : Parametric EQ/tone mode select (P. EQ/TONE) switch.
- S810 : Parametric EQ system memory (MEMORY) switch.
- S811 : Fixed preset (FIXED PRESET) switch.
- S812~814: Equalization preset (MANUAL PRESET) switches.
  [S812: 1, S813: 2, S814: 3]
- S901~910: Preset-tuning (1-0)
  (30 CHANNEL RANDOM PRESET TUNING) switches.
  [S901: 1, S902: 2, S903: 3, S904: 4, S905: 5,
  S906: 6, S907: 7, S908: 8, S909: 9, S910: 0]
- S911 : Dolby Pro-Logic Surround ON/OFF (SURROUND) switch.
- S912, 913 : Center speaker level adjustment (CENTER LEVEL) switches.
  [S912: ▼, S913: ▲]
- S914, 915 : Rear speaker level adjustment (REAR LEVEL) switches.
  [S914: ▼, S915: ▲]
- S916, 917, 921~923 : Input selector switches.
  [S916: PHONO, S917: TUNER, S921: VCR2
  S922: VCR1, S923: CD]
- S918 : Tape-monitor (TAPE/DAT MONITOR) switch.
- S919 : Test signal (TEST) switch.
- S920 : Center mode select (CENTER MODE) switch.
- S924 : Dolby 3 stereo ON/OFF (3 STEREO) switch.
- S925 : Loudness (LOUDNESS) switch.
- S926 : Tuning- mode selector (TUNING MODE) switch.
  [AUTO↔MANUAL↔LOCK]
- S927, 928, 933 : Band selector switches.
  [S927: FM, S928: AM/LW, S933: MW]
- S929 : FM mode selector (FM MODE) switch.
- S930 : Memory scan (MEMORY SCAN) switch.
- S931 : Memory (MEMORY) switch.
- S932 : Power " ⏻ STANDBY/ON" switch.
- Signal line
  - □□□□▷ : FM OSC
  - ■■■■▶ : AM OSC
  - ⇨ : Rec out signal (Lch)
  - ⇨ : Spectrum analyzer signal (Lch)
  - ⇨ : Rear speaker drive signal (Lch)
  - ⇨ : P. equalizer signal (Lch)
  - —— : Positive voltage lines
  - – – – : Negative voltage lines
  - ⇨ : FM signal
  - ➡ : AM (MW/LW) signal
  - ⇢ : AF (Front speaker drive) signal (Lch)
  - ⇨ : Center speaker drive signal

- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts. Indicated voltage values are standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on internal impedance of the DC circuit tester.
- All voltage values shown in circuitry are DC voltage in FM signal (Stereo signal) reception mode.

∗ Figures in ( ) Stand for DC-voltage in AM (MW) signal reception mode.

∗ Figures in [ ] Stand for DC-voltage in LW signal reception mode.

∗ Figures in 「 」 Stand for DC-voltage in standby mode.

- The supply part number is described alone in the replacement parts list.

Ref. No.	Production Part No.	Supply Part No.
IC301	AN7470	SVIUPC1161C3
IC501, 503	M5238P	M5238P-1

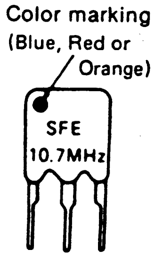
*** Caution!**

IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

* Cover the parts boxes made of plastics with alminum foil.
* Ground the soldering iron.
* Put a conductive mat on the work table.
* Do not touch the legs of IC or LSI with the fingers directly.

Note 2:

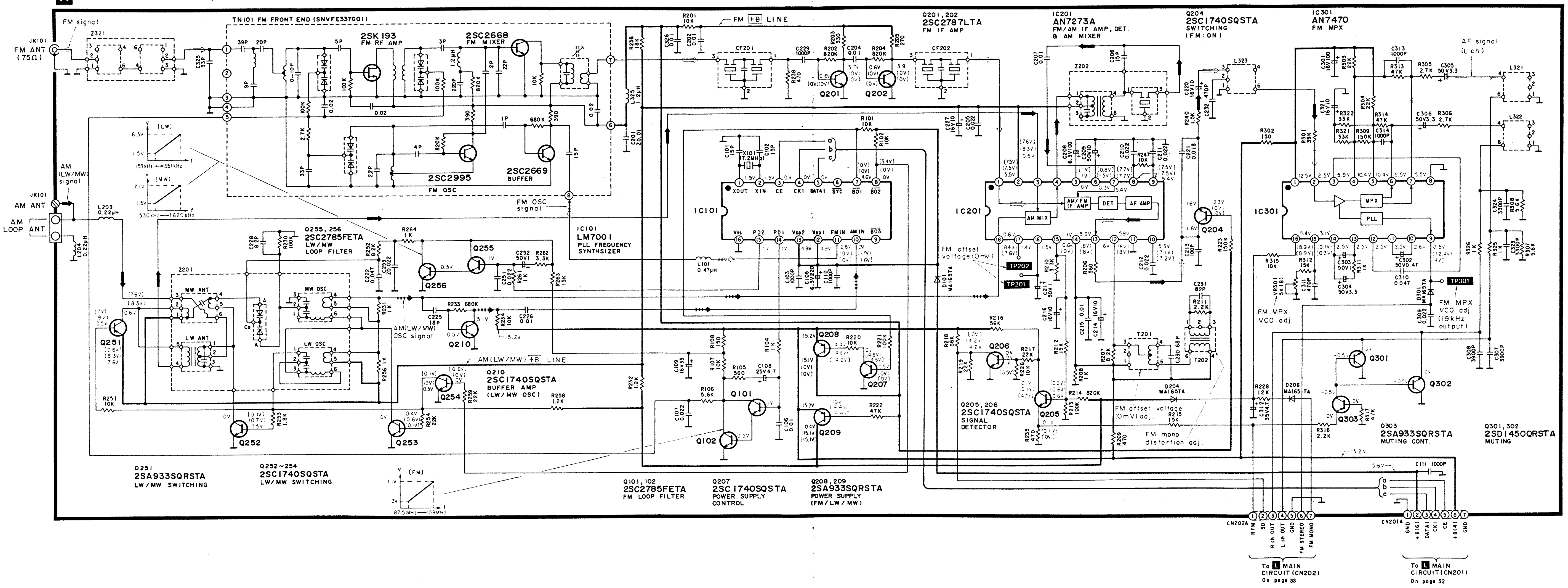
- **Use of ceramic filters in pairs**
  The ceramic filters (CF201, CF202) for FM-IF circuit are available in three ranks. For this circuit, be sure to use the ceramics of the same rank in a pair.
  At repairing and replacement, pay close attention to the short jumpers (J956, J957) for use as different short jumpers must be used depending on each rank of the ceramic filters.



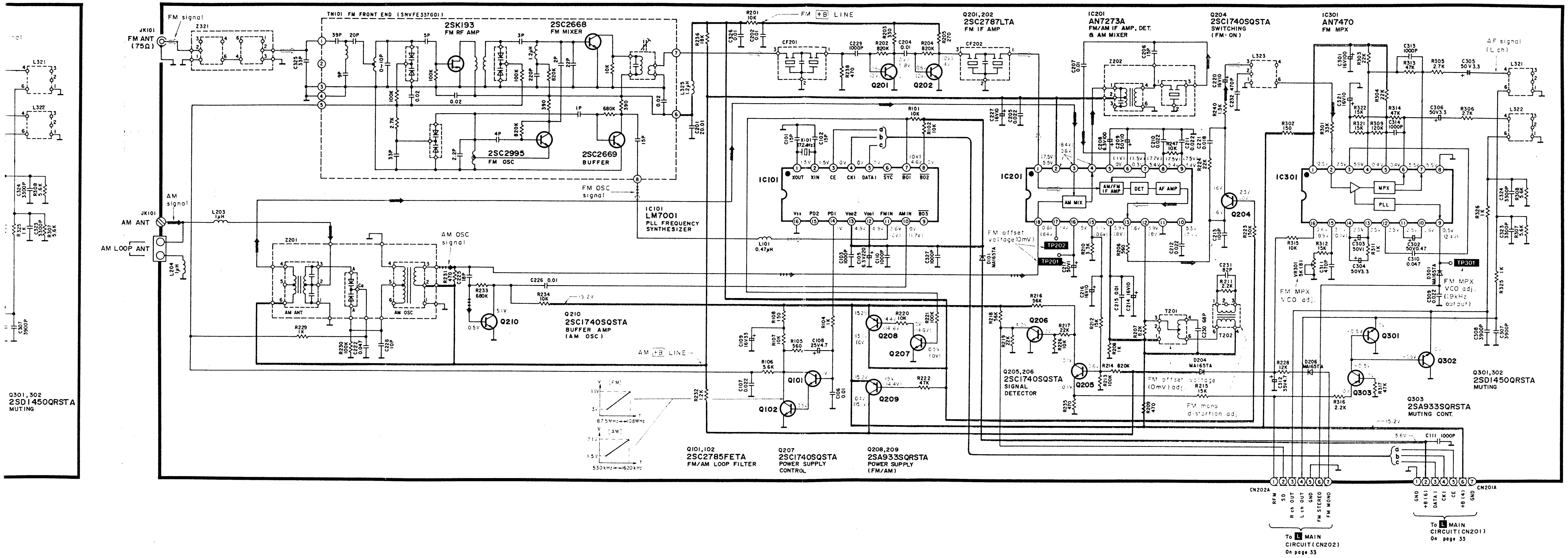
RANK (Color)	J956 (BL)	J957 (OR)	CENTER FREQUENCY
Blue	○	×	10.675MHz
Red	○	○	10.700MHz
Orange	×	○	10.725MHz

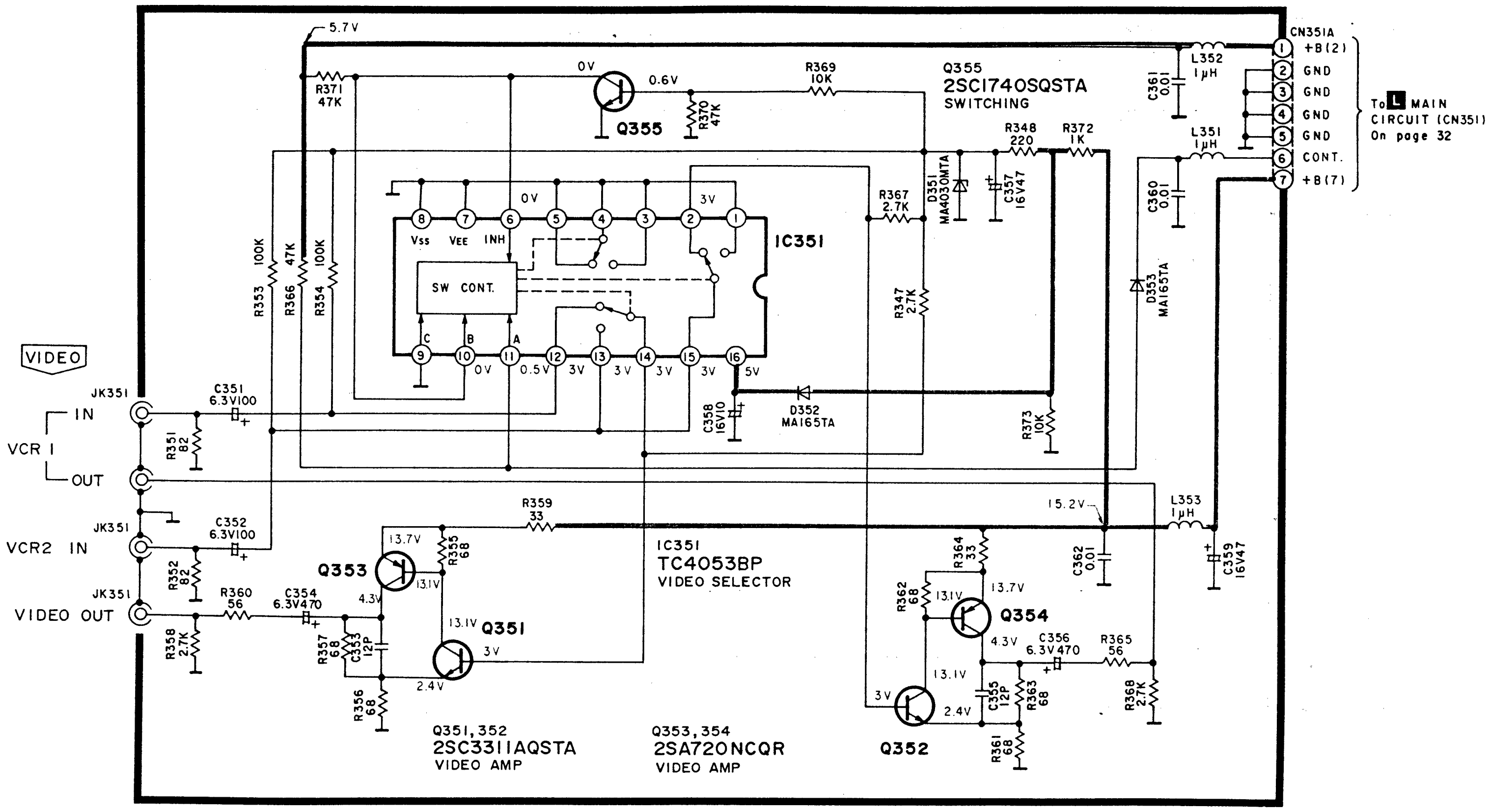
Note: ○ mark: short jumper is used.
× mark: short jumper is not used.

A TUNER CIRCUIT For[E, EB] areas.


JK101 FM ANT (75Ω)
FM signal
Z321
TN101 FM FRONT END (SNVFE337G01)
2SK193 FM RF AMP
2SC2668 FM MIXER
2SC2995
2SC2669 BUFFER
FM OSC
FM OSC signal
JK101 AM ANT
AM (LW/MW) signal
AM LOOP ANT
L203 0.22μH
Z201
MW ANT
LW ANT
MW OSC
LW OSC
AM(LW/MW) OSC signal
Q251
Q252
Q253
Q254
Q255
Q256
Q210
Q255, 256 2SC2785FETA LW/MW LOOP FILTER
Q210 2SC1740SQSTA BUFFER AMP (LW/MW OSC)
AM(LW/MW) +B LINE
Q251 2SA933SQRSTA LW/MW SWITCHING
Q252~254 2SC1740SQSTA LW/MW SWITCHING
IC101 LM7001 PLL FREQUENCY SYNTHSIZER
IC101
XOUT XIN CE CK1 DATA1 SYC BO1 BO2
Vss PD2 PD1 Vdd2 Vdd1 FMIN AMIN BO3
X101 7.2MHz
L101 0.47μH
FM +B LINE
Q101
Q102
Q101, 102 2SC2785FETA FM LOOP FILTER
Q207 2SC1740SQSTA POWER SUPPLY CONTROL
Q208, 209 2SA933SQRSTA POWER SUPPLY (FM/LW/MW)
Q201, 202 2SC2787LTA FM IF AMP
CF201
CF202
Q201
Q202
Q206
Q207
Q208
Q209
Q205
Q205, 206 2SC1740SQSTA SIGNAL DETECTOR
IC201 AN7273A FM/AM IF AMP, DET. & AM MIXER
IC201
AM MIX
AM/FM IF AMP
DET
AF AMP
Z202
T201
T202
FM offset voltage (0mV)
TP202
TP201
D101 MA165TA
FM offset voltage (0mV) adj.
FM mono distortion adj.
Q204 2SC1740SQSTA SWITCHING (FM : ON)
Q204
L323
IC301 AN7470 FM MPX
IC301
MPX
PLL
AF signal (L ch)
L321
L322
FM MPX VCO adj.
VR301 5K(B)
TP301
FM MPX VCO adj. (19kHz output)
D301 MA165TA
D204 MA165TA
D206 MA165TA
Q301
Q302
Q303
Q303 2SA933SQRSTA MUTING CONT.
Q301, 302 2SD1450QRSTA MUTING
[LW] 6.3V 1.5V 153kHz — 351kHz
[MW] 7.1V 1.5V 530kHz — 1620kHz
[FM] 11V 3V 87.5MHz — 108MHz
CN202A
RFM SD R ch OUT L ch OUT GND FM STEREO FM MONO
CN201A
GND +B(6) DATA1 CK1 CE +B(4) GND
To L MAIN CIRCUIT (CN202) On page 33
To L MAIN CIRCUIT (CN201) On page 32

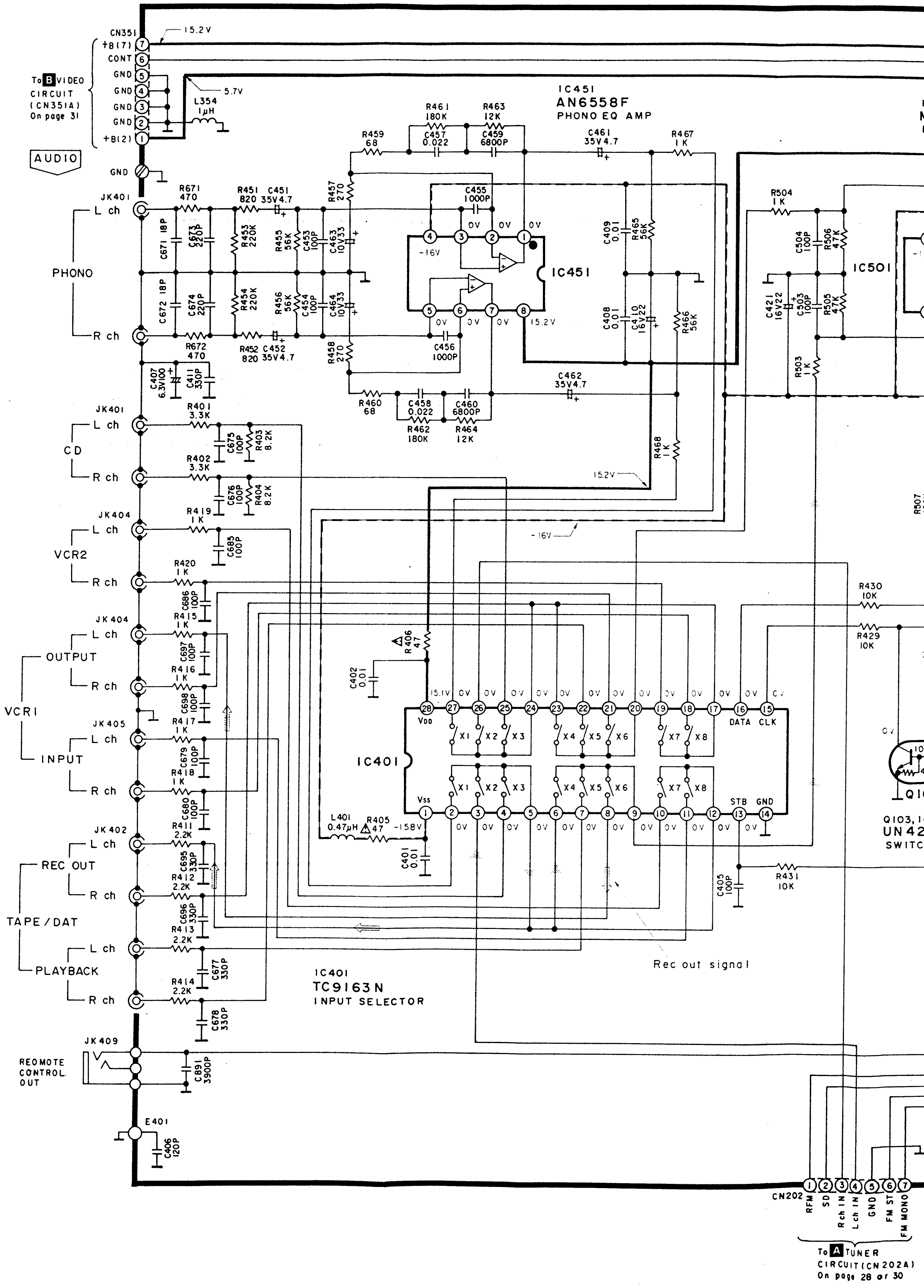
A TUNER CIRCUIT For (EG) area.

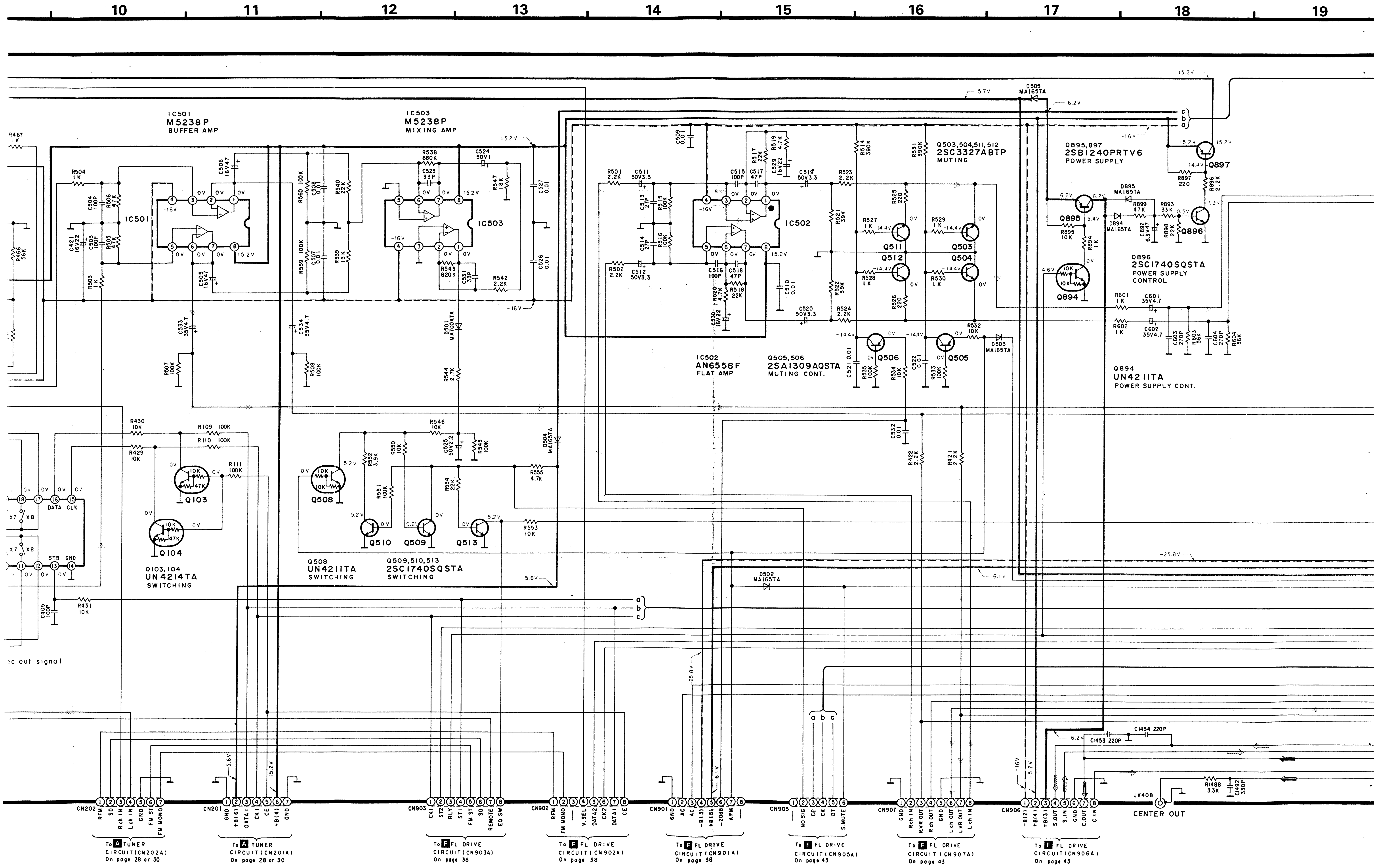

FM signal
JK101
FM ANT (75Ω)
Z321
C325 33P
TN101 FM FRONT END (SNVFE337G01)
2SK193
FM RF AMP
2SC2668
FM MIXER
2SC2995
FM OSC
2SC2669
BUFFER
FM OSC signal
IC101
LM7001
PLL FREQUENCY SYNTHESIZER
X101 7.2MHz
XOUT XIN CE CK1 DATA1 SYC BO1 BO2
Vss PD2 PD1 VDD2 VDD1 FMIN AMIN BO3
L101 0.47μH
R201 10K
FM +B LINE
CF201
CF202
Q201,202
2SC2787LTA
FM IF AMP
Q201
Q202
IC201
AN7273A
FM/AM IF AMP, DET. & AM MIXER
AM MIX
AM/FM IF AMP
DET
AF AMP
Z202
Q204
2SC1740SQSTA
SWITCHING (FM: ON)
L323
IC301
AN7470
FM MPX
MPX
PLL
AF signal (L ch)
L321
L322
FM offset voltage (0mV)
TP202
TP201
TP301
FM MPX VCO adj. (19kHz output)
FM MPX VCO adj.
VR301 5K(B)
D101 MA165TA
T201
T202
D204 MA165TA
FM offset voltage (0mV) adj.
FM mono distortion adj.
D206 MA165TA
Q205,206
2SC1740SQSTA
SIGNAL DETECTOR
Q205
Q206
Q301
Q302
Q303
Q301,302
2SD1450QRSTA
MUTING
Q303
2SA933SQRSTA
MUTING CONT.
AM signal
JK101
AM ANT
AM LOOP ANT
L203 1μH
L204 1μH
Z201
AM ANT
AM OSC
AM OSC signal
Q210
2SC1740SQSTA
BUFFER AMP (AM OSC)
AM +B LINE
Q101
Q102
Q207
Q208
Q209
Q101,102
2SC2785FETA
FM/AM LOOP FILTER
Q207
2SC1740SQSTA
POWER SUPPLY CONTROL
Q208,209
2SA933SQRSTA
POWER SUPPLY (FM/AM)
V (FM)
87.5MHz — 108MHz
V (AM)
530kHz — 1620kHz
CN202A
RFM
SD
R ch OUT
L ch OUT
GND
FM STEREO
FM MONO
CN201A
GND
+B(6)
DATA1
CK1
CE
+B(4)
GND
C111 1000P
To L MAIN CIRCUIT (CN202) On page 33
To L MAIN CIRCUIT (CN201) On page 33
Q301,302
2SD1450QRSTA
MUTING

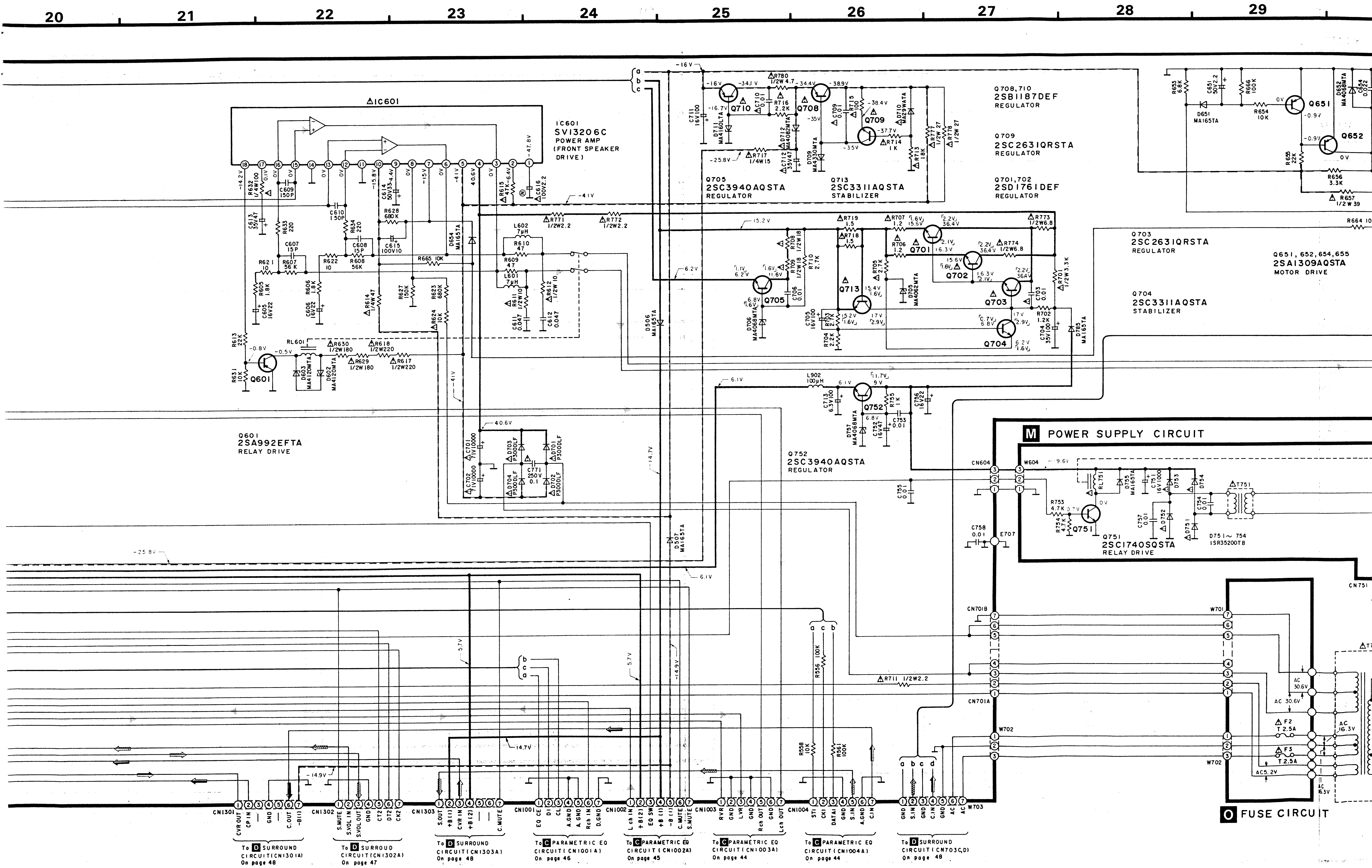

VIDEO
JK351
VCR 1
IN
OUT
VCR2 IN
VIDEO OUT
CN351A
+B(2)
GND
CONT.
+B(7)
To L MAIN CIRCUIT (CN351) On page 32
5.7V
15.2V
IC351
SW CONT.
Q355
2SC1740SQSTA
SWITCHING
Q351
Q352
Q353
Q354
IC351
TC4053BP
VIDEO SELECTOR
Q351,352
2SC3311AQSTA
VIDEO AMP
Q353,354
2SA720NCQR
VIDEO AMP
D351 MA4030MTA
D352 MA165TA
D353 MA165TA
L351 1μH
L352 1μH
L353 1μH

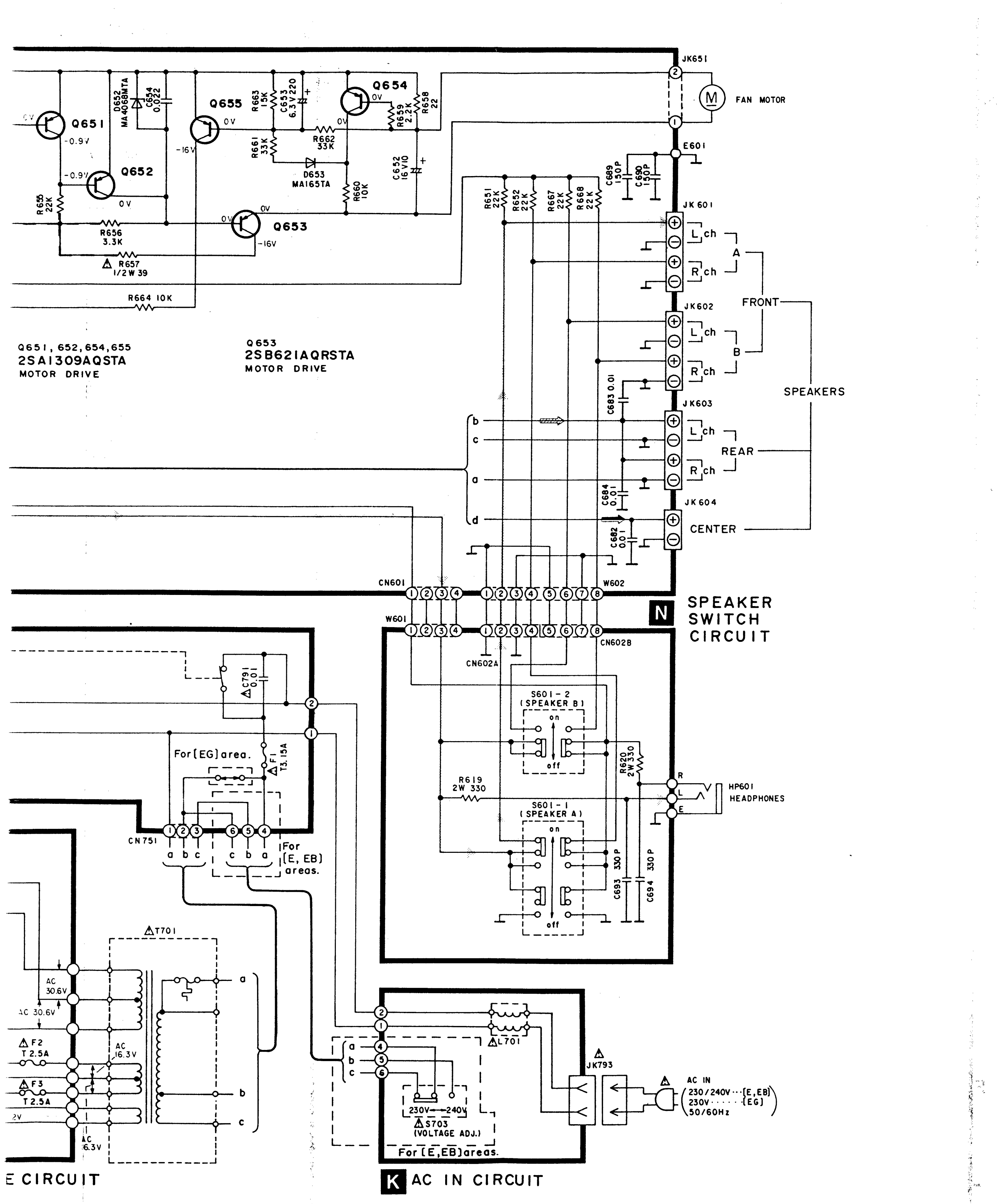
B VIDEO CIRCUIT

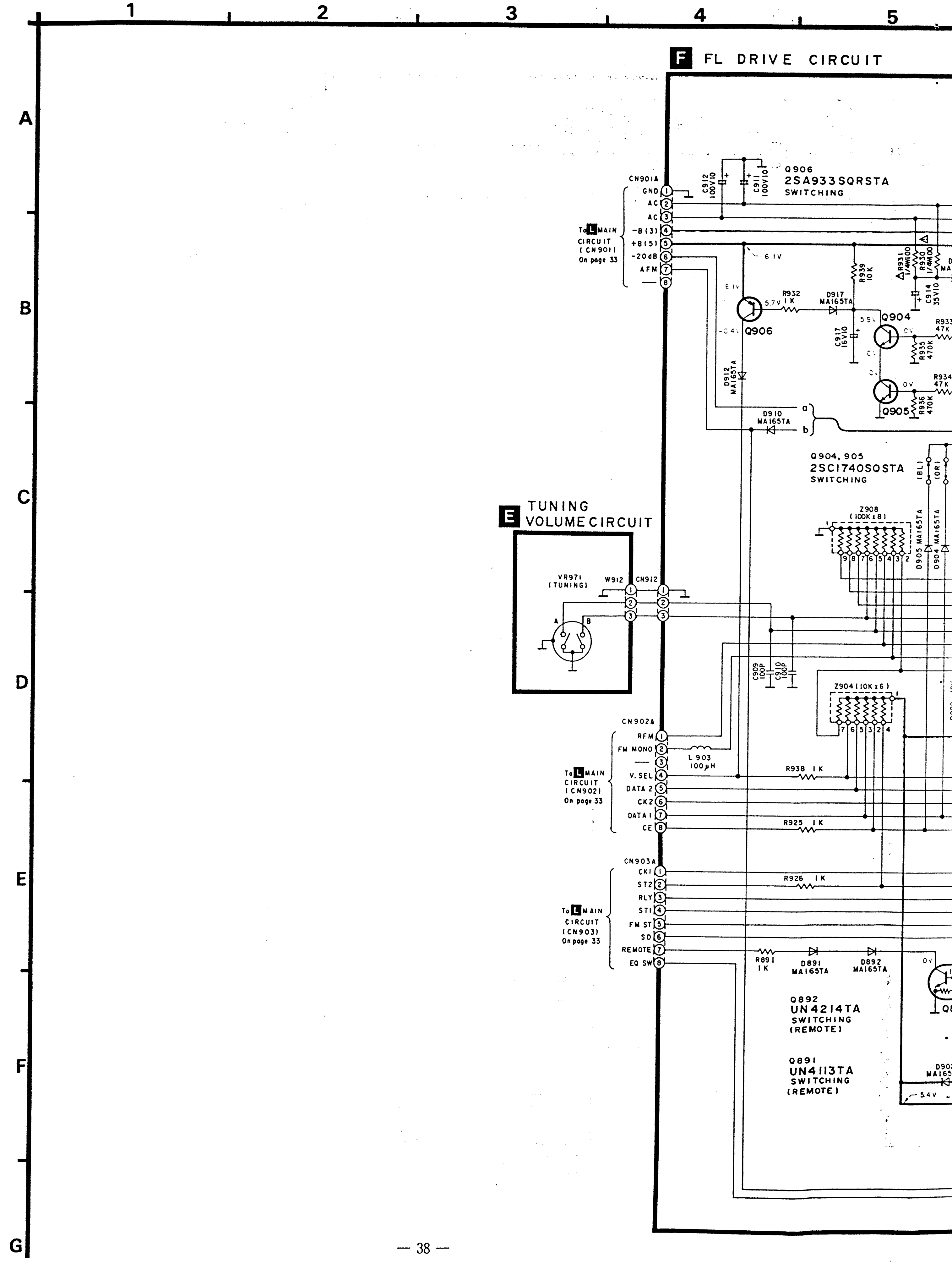
L MAIN CIRCUIT


CN351
+B(7)
CONT
GND
+B(2)
To B VIDEO CIRCUIT (CN351A) On page 31
AUDIO
15.2V
5.7V
L354 1μH
IC451
AN6558F
PHONO EQ AMP
JK401
PHONO
L ch
R ch
CD
JK404
VCR2
OUTPUT
VCR1
INPUT
JK405
JK402
REC OUT
TAPE/DAT
PLAYBACK
JK409
REOMOTE CONTROL OUT
E401
IC401
TC9163N
INPUT SELECTOR
-16V
Rec out signal
IC501
Q103,1
UN42
SWITC
CN202
RFM
SD
Rch IN
Lch IN
GND
FM ST
FM MONO
To A TUNER CIRCUIT (CN202A) On page 28 or 30

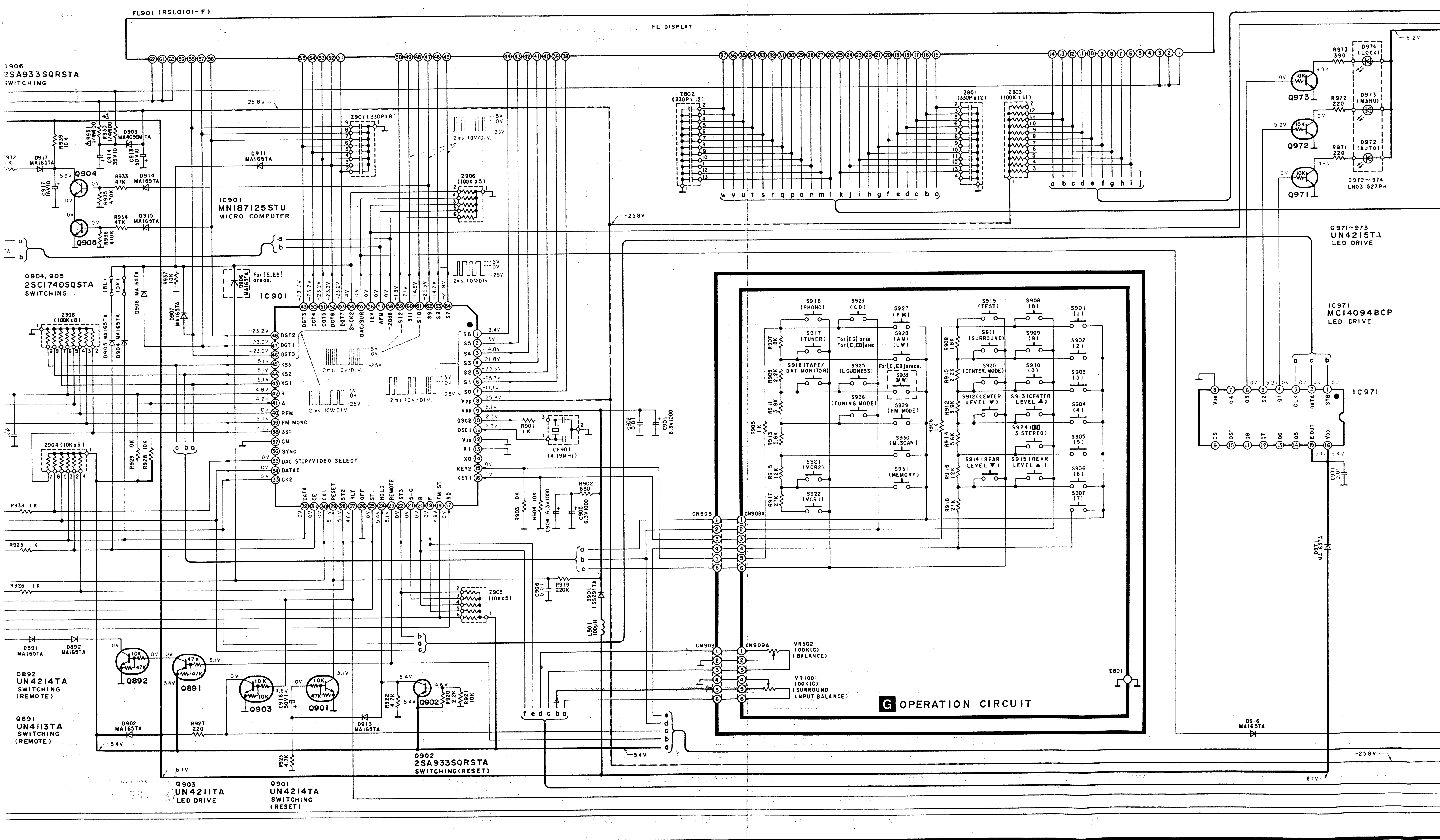

10
11
12
13
14
15
16
17
18
19
IC501
M5238P
BUFFER AMP
IC503
M5238P
MIXING AMP
IC502
AN6558F
FLAT AMP
Q505,506
2SA1309AQSTA
MUTING CONT.
Q503,504,511,512
2SC3327ABTP
MUTING
Q895,897
2SB1240PRTV6
POWER SUPPLY
Q896
2SC1740SQSTA
POWER SUPPLY
CONTROL
Q894
UN4211TA
POWER SUPPLY CONT.
Q103,104
UN4214TA
SWITCHING
Q508
UN4211TA
SWITCHING
Q509,510,513
2SC1740SQSTA
SWITCHING
Q103
Q104
Q508
Q510
Q509
Q513
Q511
Q512
Q503
Q504
Q506
Q505
Q895
Q896
Q897
Q894
D505 MA165TA
D895 MA165TA
D894 MA165TA
D503 MA165TA
D502 MA165TA
D504 MA165TA
D501 MA700ATA
R467 1K
R504 1K
R506 47K
R505 47K
R466 56K
R503 1K
C504 100P
C503 100P
C421 16V22
C506 16V47
C505 16V47
C533 35V4.7
R507 100K
R560 100K
R559 100K
C508 0.01
C507 0.01
R540 22K
R539 15K
C534 35V4.7
R508 100K
R538 680K
C523 33P
C524 50V1
R547 18K
R543 820K
C551 33P
R542 2.2K
C527 0.01
C526 0.01
R544 2.7K
C509 0.01
R501 2.2K
C511 50V3.3
C513 27P
R515 100K
C514 27P
R516 100K
R502 2.2K
C512 50V3.3
C515 100P
C517 47P
R517 22K
R519 4.7K
C529 16V22
C519 50V3.3
C516 100P
C518 47P
R520 4.7K
R518 22K
C530 16V22
C510 0.01
C520 50V3.3
R523 2.2K
R524 2.2K
R521 39K
R522 39K
R514 390K
R531 390K
R525 220
R526 220
R527 1K
R528 1K
R529 1K
R530 1K
R532 10K
C521 0.01
R535 100K
R534 10K
C522 0.01
R533 100K
C532 0.01
R422 2.2K
R421 2.2K
R897 220
R896 2.2K
R899 47K
R893 33K
R895 10K
R894 1K
C892 6.3V47
R898 22K
R601 1K
C601 35V4.7
R602 1K
C602 35V4.7
C603 270P
R603 56K
C604 270P
R604 56K
R430 10K
R429 10K
R109 100K
R110 100K
R111 100K
R431 10K
C405 100P
R546 10K
R552 3.9K
R550 10K
C525 50V2.2
R545 100K
R555 4.7K
R551 10K
R554 22K
R553 10K
C1454 220P
C1453 220P
R1488 3.3K
C1492 330P
JK408
CENTER OUT
15.2V
5.7V
6.2V
-16V
14.4V
7.9V
5.4V
4.6V
0.5V
-14.4V
5.2V
0.6V
5.6V
6.1V
-25.8V
0V
DATA
CLK
STB
GND
X7
X8
ec out signal
a
b
c
CN202
RFM
SD
Rch IN
Lch IN
GND
FM ST
FM MONO
CN201
GND
+B(6)
DATA1
CK1
CE
+B(4)
GND
CN903
CK1
ST2
RLY
ST1
FM ST
SD
REMOTE
EQ SW
CN902
RFM
FM MONO
V.SEL
DATA2
CK2
DATA1
CE
CN901
GND
AC
AC
-B(3)
+B(3)
-20B
AFM
CN905
NO SIG
CE
CK
DT
S.MUTE
CN907
GND
Rch IN
R.VR OUT
Rch OUT
GND
Lch OUT
L.VR OUT
Lch IN
CN906
-B(2)
+B(4)
+B(3)
S.OUT
S.IN
GND
C.OUT
C.IN
To A TUNER CIRCUIT(CN202A) On page 28 or 30
To A TUNER CIRCUIT(CN201A) On page 28 or 30
To F FL DRIVE CIRCUIT(CN903A) On page 38
To F FL DRIVE CIRCUIT(CN902A) On page 38
To F FL DRIVE CIRCUIT(CN901A) On page 38
To F FL DRIVE CIRCUIT(CN905A) On page 43
To F FL DRIVE CIRCUIT(CN907A) On page 43
To F FL DRIVE CIRCUIT(CN906A) On page 43

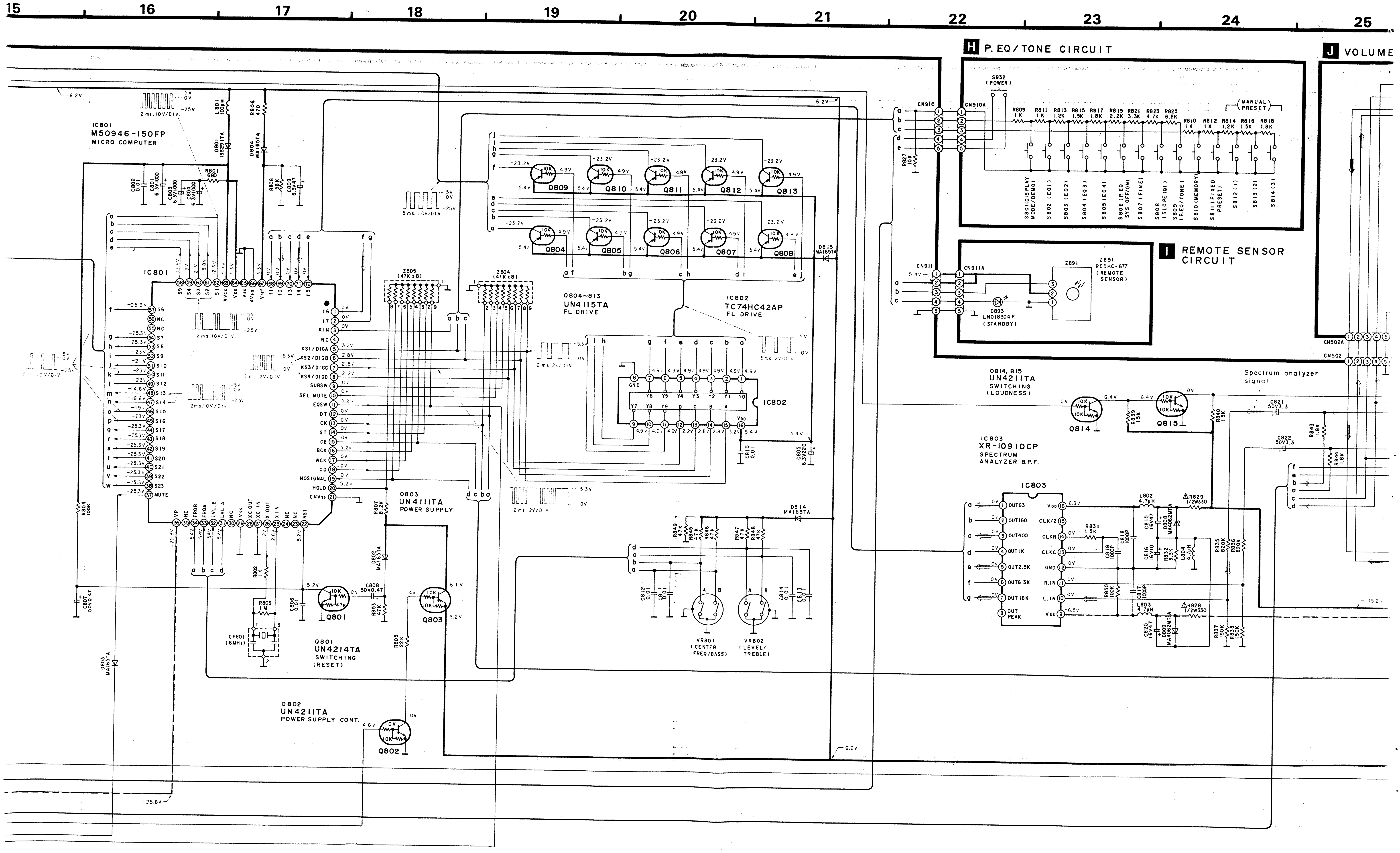

20
21
22
23
24
25
26
27
28
29
ΔIC601
IC601
SVI3206C
POWER AMP
(FRONT SPEAKER
DRIVE)
Q601
2SA992EFTA
RELAY DRIVE
Q705
2SC3940AQSTA
REGULATOR
Q713
2SC3311AQSTA
STABILIZER
Q708,710
2SB1187DEF
REGULATOR
Q709
2SC2631QRSTA
REGULATOR
Q701,702
2SD1761DEF
REGULATOR
Q703
2SC2631QRSTA
REGULATOR
Q704
2SC3311AQSTA
STABILIZER
Q651, 652, 654, 655
2SA1309AQSTA
MOTOR DRIVE
Q752
2SC3940AQSTA
REGULATOR
M POWER SUPPLY CIRCUIT
Q751
2SC1740SQSTA
RELAY DRIVE
D751～754
1SR35200TB
O FUSE CIRCUIT
ΔF2
T 2.5A
ΔF3
T 2.5A
ΔT751
CN604
W604
E707
CN701B
CN701A
W701
W702
W703
CN751
ΔR711 1/2W2.2
CN1301
CVR OUT
CP IN
GND
C.OUT
-B(1)
To D SURROUND
CIRCUIT(CN1301A)
On page 48
CN1302
S.MUTE
S.VOL OUT
GND
CT2
DT2
CK2
To D SURROUND
CIRCUIT(CN1302A)
On page 47
CN1303
S.OUT
+B(1)
CVR IN
+B(2)
C.MUTE
To D SURROUND
CIRCUIT(CN1303A)
On page 48
CN1001
EQ CE
DI
CL
A.GND
A.GND
Rch IN
D.GND
To C PARAMETRIC EQ
CIRCUIT(CN1001A)
On page 46
CN1002
L.ch IN
+B(2)
EQ SW
+B(1)
-B(1)
C.MUTE
S.MUTE
To C PARAMETRIC EQ
CIRCUIT(CN1002A)
On page 45
CN1003
RVR
GND
LVR
GND
Rch OUT
GND
Lch OUT
To C PARAMETRIC EQ
CIRCUIT(CN1003A)
On page 44
CN1004
STI
CKI
DATAI
GND
S.IN
A.GND
C.IN
To C PARAMETRIC EQ
CIRCUIT(CN1004A)
On page 44
GND
S.IN
GND
C.IN
GND
AC
AC
To D SURROUND
CIRCUIT(CN703C,D)
On page 48
-16V
-25.8V
15.2V
6.2V
6.1V
40.6V
-14.7V
14.7V
5.7V
-14.9V
AC 30.6V
AC 16.3V
AC5.2V


30
31
32
33
34
Q651
Q652
Q653
Q654
Q655
D652 MA4068MTA
C654 0.022
R663 15K
C653 6.3V220
R659 2.2K
R658 22
R661 33K
R662 33K
D653 MA165TA
R660 10K
C652 16V10
R655 22K
R656 3.3K
R657 1/2W 39
R664 10K
JK651
FAN MOTOR
E601
C689 150P
C690 150P
R651 22K
R652 22K
R667 22K
R668 22K
JK601
JK602
JK603
JK604
L ch
R ch
A
B
FRONT
REAR
CENTER
SPEAKERS
C683 0.01
C684 0.01
C682 0.01
Q651, 652, 654, 655
2SA1309AQSTA
MOTOR DRIVE
Q653
2SB621AQRSTA
MOTOR DRIVE
CN601
W602
W601
CN602A
CN602B
N SPEAKER SWITCH CIRCUIT
S601-2 (SPEAKER B)
S601-1 (SPEAKER A)
on
off
R619 2W 330
R620 2W 330
HP601 HEADPHONES
C693 330P
C694 330P
C791 0.01
F1 T3.15A
For [EG] area.
CN751
For [E, EB] areas.
T701
F2 T2.5A
F3 T2.5A
AC 30.6V
AC 16.3V
AC 6.3V
L701
JK793
AC IN 230/240V···[E, EB] 230V·····[EG] 50/60Hz
S703 (VOLTAGE ADJ.)
230V 240V
For [E, EB] areas.
K AC IN CIRCUIT
E CIRCUIT

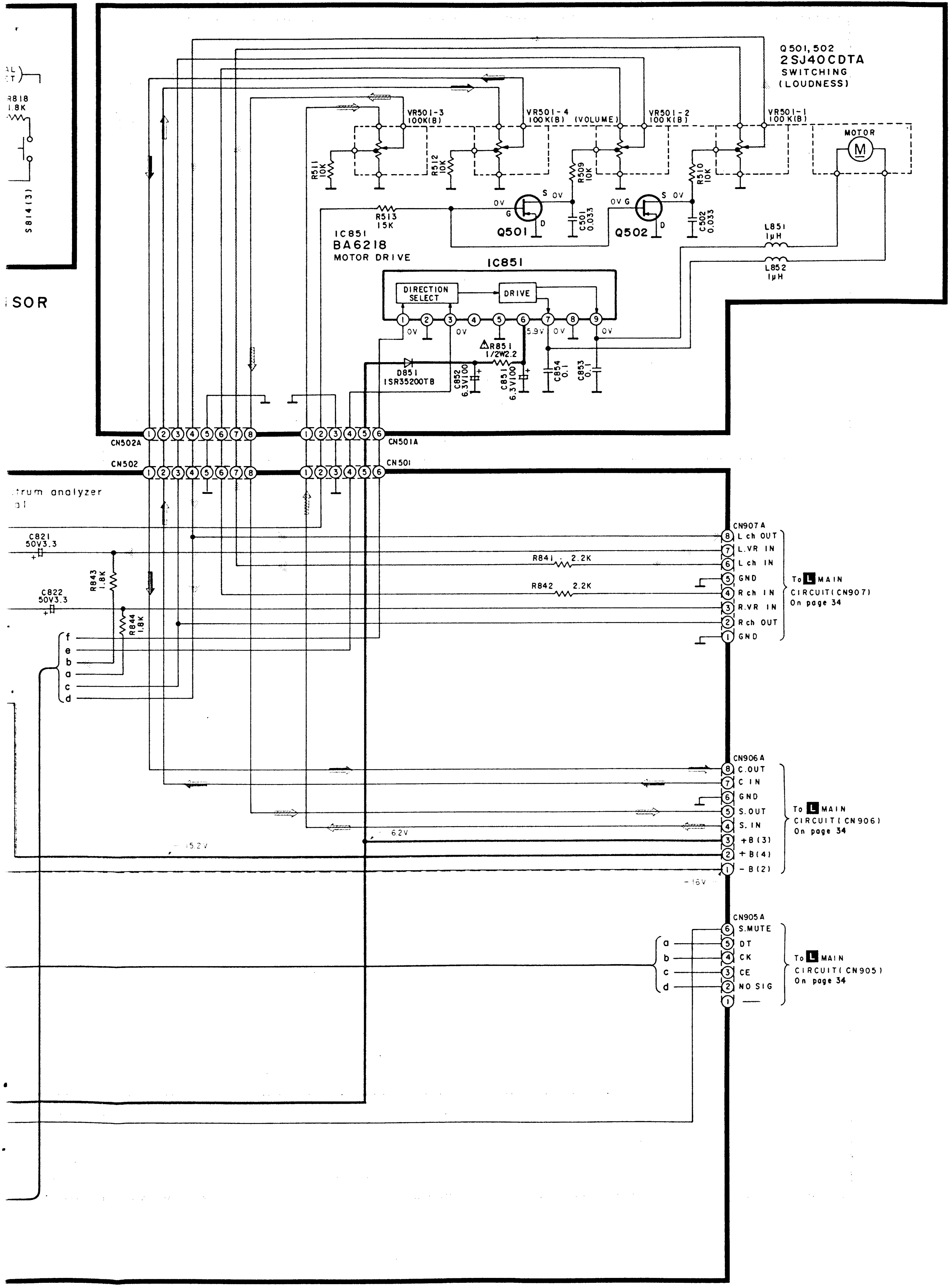

1
2
3
4
5
A
B
C
D
E
F
G
F FL DRIVE CIRCUIT
CN901A
GND
AC
-B(3)
+B(5)
-20dB
AFM
To L MAIN CIRCUIT (CN901) On page 33
C912 100V10
C911 100V10
Q906 2SA933SQRSTA SWITCHING
R932 1K
D917 MA165TA
R939 10K
R931 1/4W100
R930 1/4W100
C914 35V10
C917 16V10
Q904
Q905
R935 470K
R936 470K
D912 MA165TA
D910 MA165TA
Q904, 905 2SC1740SQSTA SWITCHING
Z908 (100K×8)
D905 MA165TA
E TUNING VOLUME CIRCUIT
VR971 (TUNING)
W912
CN912
C909 100P
C910 100P
Z904 (10K×6)
CN902A
RFM
FM MONO
V. SEL
DATA 2
CK2
DATA 1
CE
To L MAIN CIRCUIT (CN902) On page 33
L903 100μH
R938 1K
R925 1K
CN903A
CK1
ST2
RLY
ST1
FM ST
SD
REMOTE
EQ SW
To L MAIN CIRCUIT (CN903) On page 33
R926 1K
R891 1K
D891 MA165TA
D892 MA165TA
Q892 UN4214TA SWITCHING (REMOTE)
Q891 UN4113TA SWITCHING (REMOTE)

CIRCUIT

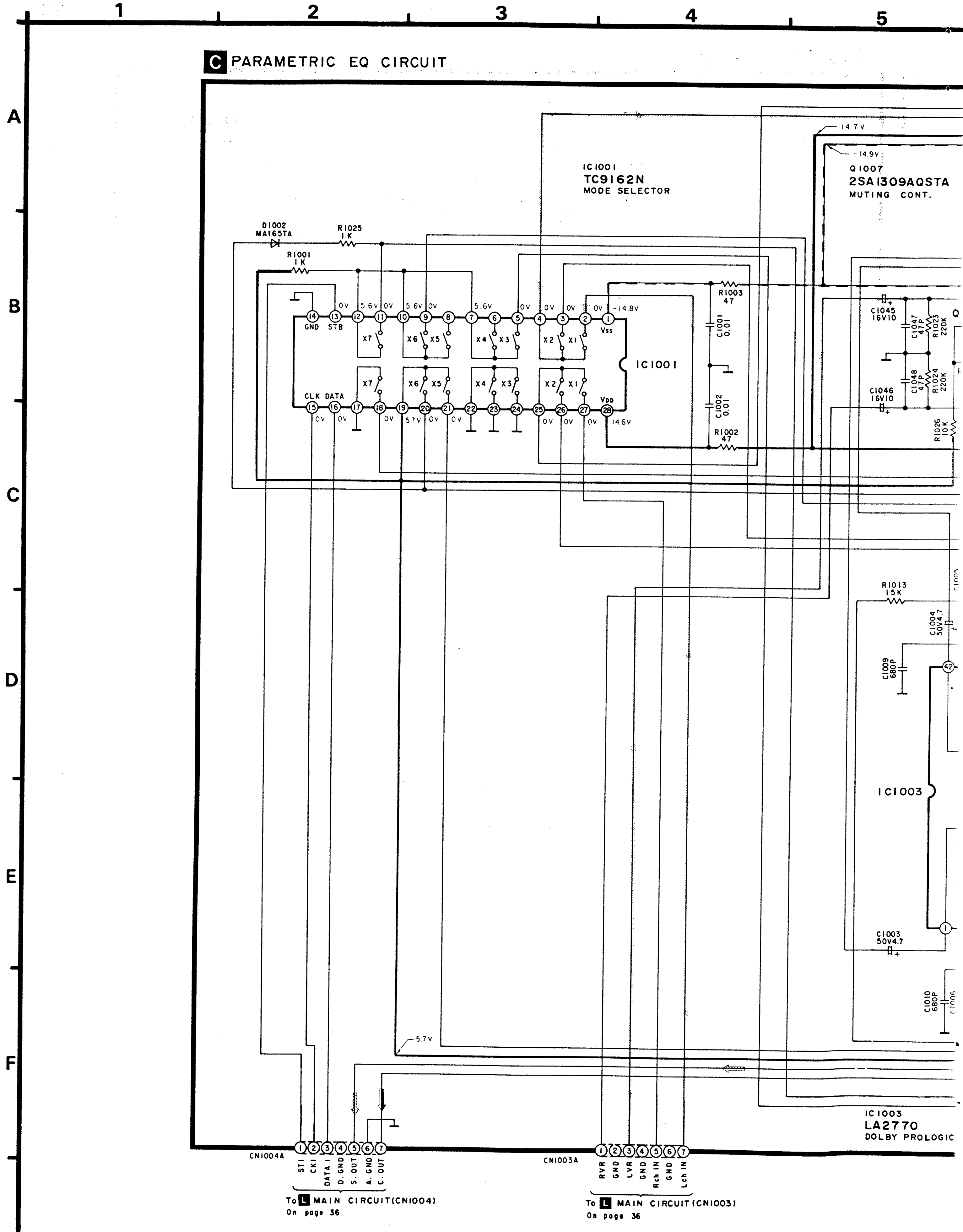

FL901 (RSL0101-F)
FL DISPLAY
Q906
2SA933SQRSTA
SWITCHING
Q904, 905
2SC1740SQSTA
SWITCHING
IC901
MN187125STU
MICRO COMPUTER
Z907 (330P×8)
Z906 (100K×5)
Z908 (100K×8)
Z904 (10K×6)
Z905 (10K×5)
Z802 (330P×12)
Z801 (330P×12)
Z803 (100K×11)
For (E, EB) areas.
D906 MA165TA
D907 MA165TA
D908 MA165TA
D911 MA165TA
D903 MA4056M TA
D914 MA165TA
D915 MA165TA
D917 MA165TA
-25.8V
2ms. 10V/DIV.
2ms. 1CV/DIV.
DGT2
DGT1
DGT0
KS3
KS2
KS1
B
A
RFM
FM MONO
3ST
CM
SYNC
DAC STOP/VIDEO SELECT
DATA2
CK2
DGT3
DGT4
DGT5
DGT6
DGT7
SHCK2
DAC/SUR
IEV
AFM
2048
S12
S11
S10
S9
S8
S7
S6
S5
S4
S3
S2
S1
S0
VPP
VDD
OSC2
OSC1
VSS
X1
X0
KEY2
KEY1
DATA1
CE
CK1
RESET
RLY
OFF
ST1
HOLD
REMOTE
ST2
ST3
5-6
R
F
FM ST
SD
CF901 (4.19MHz)
R901 1K
C902 0.01
C901 6.3V1000
R902 680
R903 10K
R904 10K
C904 6.3V1000
C905 6.3V1000
C906 0.01
R919 220K
D901 1SS291TA
L901 100μH
R938 1K
R925 1K
R926 1K
R929 10K
R928 10K
R937 10K
R939 10K
R933 47K
R934 47K
R935 470K
R936 470K
D891 MA165TA
D892 MA165TA
Q892
UN4214TA
SWITCHING
(REMOTE)
Q891
UN4113TA
SWITCHING
(REMOTE)
D902 MA165TA
R927 220
Q903
UN4211TA
LED DRIVE
Q901
UN4214TA
SWITCHING
(RESET)
C916 50V1
R923 4.7K
D913 MA165TA
R922 4.7K
Q902
2SA933SQRSTA
SWITCHING (RESET)
R920 2.2K
R921 10K
CN908
CN908A
CN909
CN909A
VR502 100K(G) (BALANCE)
VR1001 100K(G) (SURROUND INPUT BALANCE)
E801
G OPERATION CIRCUIT
S916 (PHONO)
S917 (TUNER)
S918 (TAPE/DAT MONITOR)
S921 (VCR2)
S922 (VCR1)
S923 (CD)
S925 (LOUDNESS)
S926 (TUNING MODE)
S927 (FM)
S928 (AM) (LW)
For (EG) area
For (E, EB) area
For (E, EB) areas.
S933 (MW)
S929 (FM MODE)
S930 (M.SCAN)
S931 (MEMORY)
S919 (TEST)
S911 (SURROUND)
S920 (CENTER MODE)
S912 (CENTER LEVEL ▼)
S914 (REAR LEVEL ▼)
S908 (8)
S909 (9)
S910 (0)
S913 (CENTER LEVEL ▲)
S924 3 STEREO
S915 (REAR LEVEL ▲)
S901 (1)
S902 (2)
S903 (3)
S904 (4)
S905 (5)
S906 (6)
S907 (7)
R907 1.8K
R909 2.2K
R911 3.9K
R913 5.6K
R905 1K
R915 12K
R917 27K
R908 1.8K
R910 2.2K
R912 3.9K
R914 5.6K
R906 1K
R916 12K
R918 27K
R973 390
R972 220
R971 220
D974 (LOCK)
D973 (MANU)
D972 (AUTO)
D972~974 LN031527PH
Q973
Q972
Q971
Q971~973
UN4215TA
LED DRIVE
IC971
MC14094BCP
LED DRIVE
STB
DATA
CLK
Q1
Q2
Q3
Q4
VSS
VDD
E.OUT
QS
QS'
Q8
Q7
Q6
Q5
C971 0.01
D971 MA165TA
D916 MA165TA
6.2V
6.1V
5.4V
-25.8V

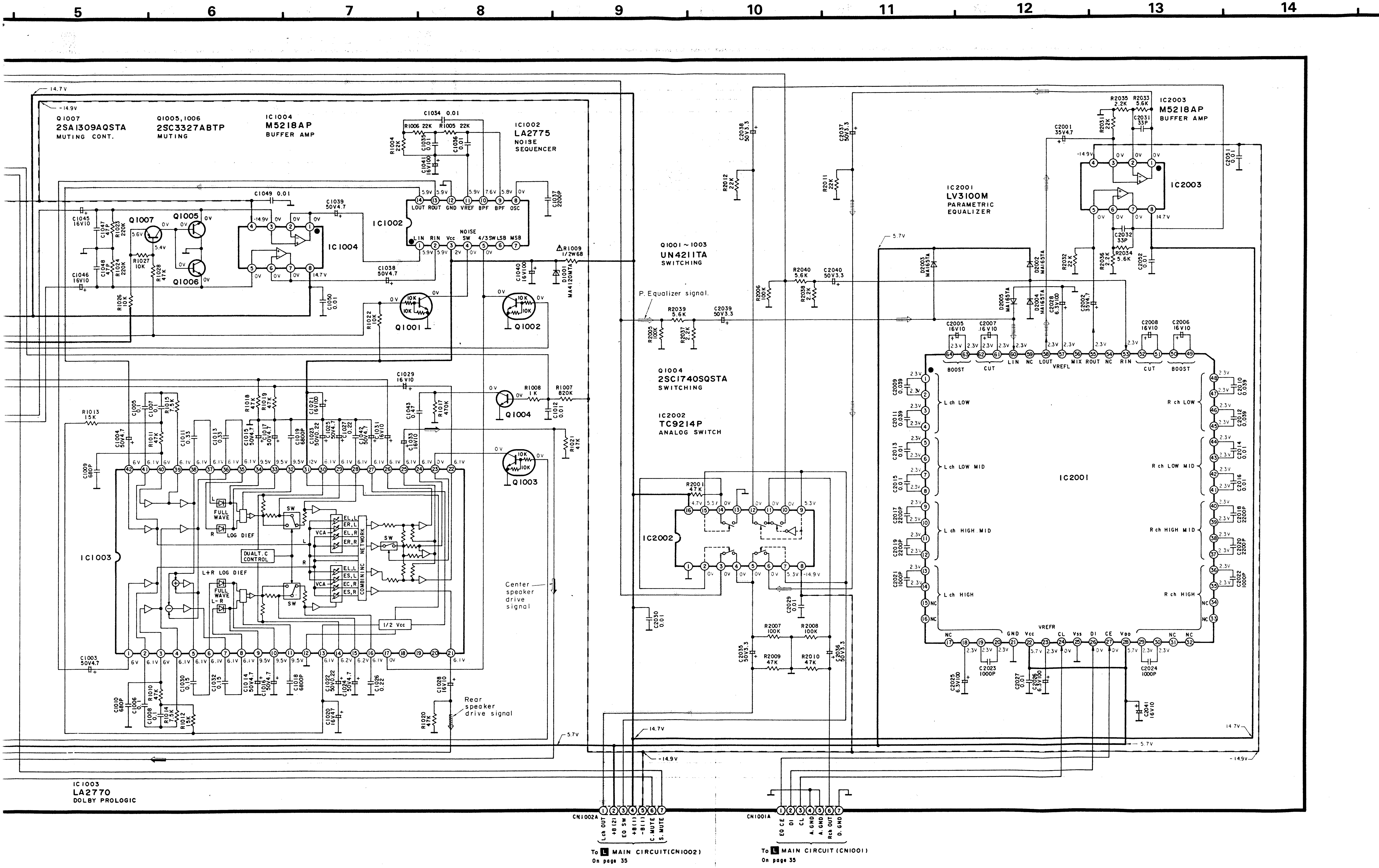

15
16
17
18
19
20
21
22
23
24
25
H P. EQ/TONE CIRCUIT
J VOLUME
I REMOTE SENSOR CIRCUIT
IC801 M50946-150FP MICRO COMPUTER
IC801
IC802 TC74HC42AP FL DRIVE
IC802
Q804~813 UN4115TA FL DRIVE
Q809
Q810
Q811
Q812
Q813
Q804
Q805
Q806
Q807
Q808
Z805 (47K x 8)
Z804 (47K x 8)
Q803 UN4111TA POWER SUPPLY
Q801 UN4214TA SWITCHING (RESET)
Q802 UN4211TA POWER SUPPLY CONT.
CF801 (6MHz)
VR801 (CENTER FREQ/BASS)
VR802 (LEVEL/TREBLE)
D815 MA165TA
D814 MA165TA
D802 MA165TA
D803 MA165TA
D801 1SS291TA
D804 MA165TA
L801 100µH
R806 470
R801 680
R804 100K
R807 8.2K
R803 1M
R802 1K
R853 47K
R805 22K
C807 50V0.47
C808 50V0.47
C806 0.01
C805 6.3V220
C810 0.01
2ms.10V/DIV.
5ms.10V/DIV.
2ms.2V/DIV.
5ms.2V/DIV.
CN910
CN910A
S932 (POWER)
(MANUAL PRESET)
R809 1K
R811 1K
R813 1.2K
R815 1.5K
R817 1.8K
R819 2.2K
R821 3.3K
R823 4.7K
R825 6.8K
R810 1K
R812 1K
R814 1.2K
R816 1.5K
R818 1.8K
R827 10K
S801(DISPLAY MODE/DEMO)
S802 (EQ1)
S803 (EQ2)
S804 (EQ3)
S805 (EQ4)
S806 (P.EQ SYS OFF/ON)
S807 (FINE)
S808 (SLOPE(Q))
S809 (P.EQ/TONE)
S810 (MEMORY)
S811 (FIXED PRESET)
S812 (1)
S813 (2)
S814 (3)
CN911
CN911A
Z891
Z891 RCDHC-677 (REMOTE SENSOR)
D893 LN01830P (STANDBY)
CN502A
CN502
Q814, 815 UN4211TA SWITCHING (LOUDNESS)
Q814
Q815
Spectrum analyzer signal
IC803 XR-1091DCP SPECTRUM ANALYZER B.P.F.
IC803
OUT63
OUT160
OUT400
OUT1K
OUT2.5K
OUT6.3K
OUT16K
OUT PEAK
VDD
CLK/2
CLKR
CLKC
GND
R.IN
L.IN
Vss
L802 4.7µH
L803 4.7µH
L804 4.7µH
D808 MA4062MTA
D809 MA4062MTA
ΔR829 1/2W330
ΔR828 1/2W330
R831 1.5K
R830 100K
C821 50V3.3
C822 50V3.3
R843 1.8K
R844 1.8K
R839 15K
R840 15K
R835 820K
R836 820K
R837 150K
R838 150K
6.2V
-25.8V
6.2V
-15.2V

J VOLUME CIRCUIT

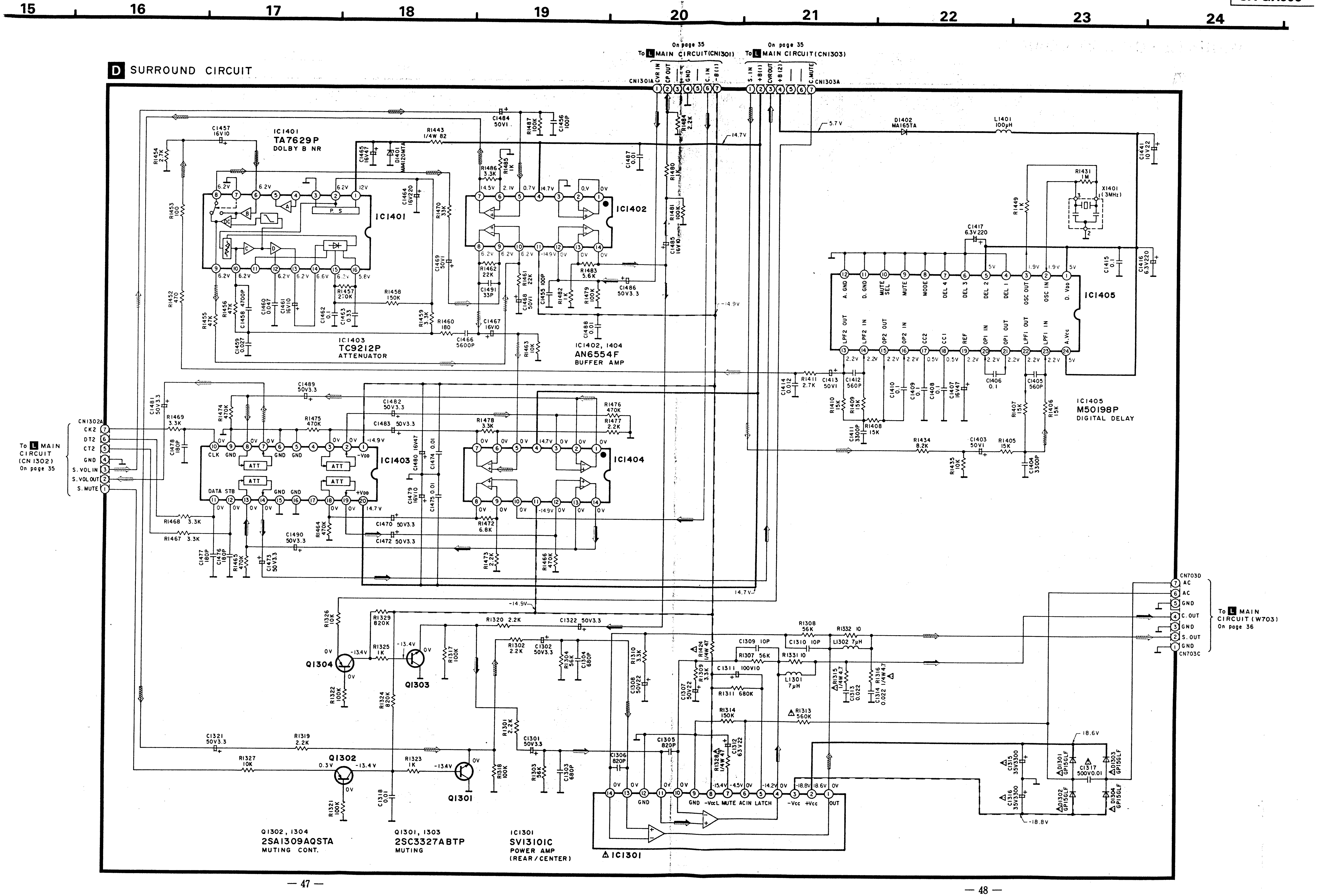

Q501, 502
2SJ40CDTA
SWITCHING
(LOUDNESS)
VR501-3
100K(B)
VR501-4
100K(B)
(VOLUME)
VR501-2
100K(B)
VR501-1
100K(B)
MOTOR
M
R511
10K
R512
10K
R509
10K
R510
10K
R513
15K
0V
G
S
0V
D
Q501
C501
0.033
0V G
S
0V
D
Q502
C502
0.033
L851
1μH
L852
1μH
IC851
BA6218
MOTOR DRIVE
IC851
DIRECTION SELECT
DRIVE
1 2 3 4 5 6 7 8 9
0V
0V
5.9V
0V
0V
R851
1/2W2.2
D851
1SR35200TB
C852
6.3V100
C851
6.3V100
C854
0.1
C853
0.1
CN502A
CN502
CN501A
CN501
SOR
R818
1.8K
S814(3)
trum analyzer
C821
50V3.3
C822
50V3.3
R843
1.8K
R844
1.8K
f
e
b
a
c
d
R841 2.2K
R842 2.2K
CN907A
8 L ch OUT
7 L.VR IN
6 L ch IN
5 GND
4 R ch IN
3 R.VR IN
2 R ch OUT
1 GND
To L MAIN CIRCUIT(CN907) On page 34
CN906A
8 C.OUT
7 C IN
6 GND
5 S.OUT
4 S.IN
3 +B(3)
2 +B(4)
1 -B(2)
To L MAIN CIRCUIT(CN906) On page 34
6.2V
15.2V
-16V
CN905A
6 S.MUTE
5 DT
4 CK
3 CE
2 NO SIG
1 —
a
b
c
d
To L MAIN CIRCUIT(CN905) On page 34

C PARAMETRIC EQ CIRCUIT

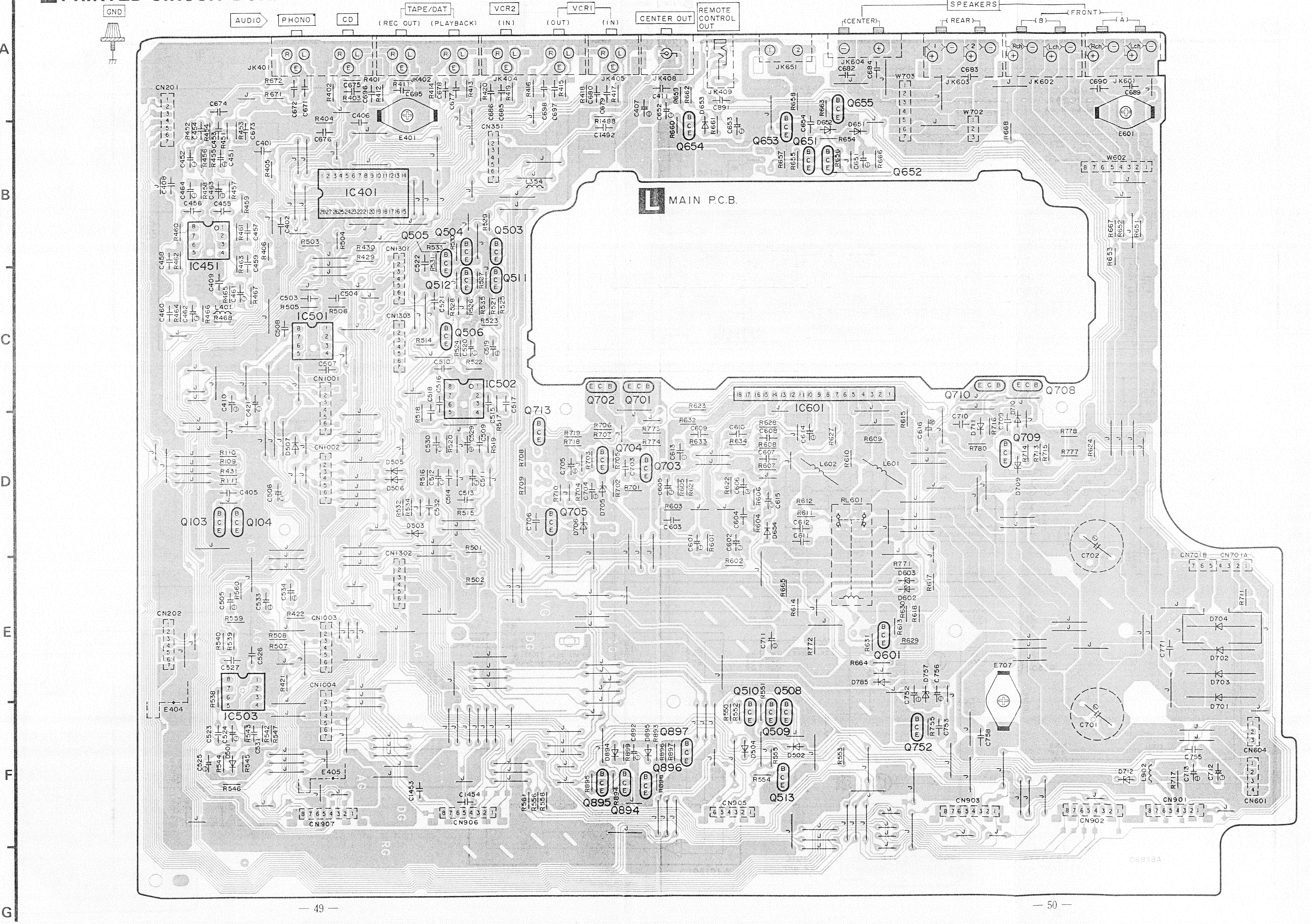

1
2
3
4
5
A
B
C
D
E
F
G
IC1001
TC9162N
MODE SELECTOR
Q1007
2SA1309AQSTA
MUTING CONT.
14.7V
-14.9V
D1002
MA165TA
R1025
1K
R1001
1K
R1003
47
R1002
47
C1001
0.01
C1002
0.01
GND
STB
CLK
DATA
Vss
VDD
-14.8V
14.6V
5.6V
5.7V
0V
X1
X2
X3
X4
X5
X6
X7
IC1001
C1045
16V10
C1046
16V10
C1047
47P
C1048
47P
R1023
220K
R1024
220K
R1026
10K
R1013
15K
C1004
50V4.7
C1009
680P
C1003
50V4.7
C1010
680P
C1005
C1006
IC1003
IC1003
LA2770
DOLBY PROLOGIC
CN1004A
ST1
CK1
DATA 1
D.GND
S.OUT
A.GND
C.OUT
CN1003A
RVR
GND
LVR
GND
Rch IN
GND
Lch IN
To L MAIN CIRCUIT(CN1004)
On page 36
To L MAIN CIRCUIT(CN1003)
On page 36


5
6
7
8
9
10
11
12
13
14
14.7V
-14.9V
Q1007
2SA1309AQSTA
MUTING CONT.
Q1005,1006
2SC3327ABTP
MUTING
IC1004
M5218AP
BUFFER AMP
IC1002
LA2775
NOISE
SEQUENCER
Q1001～1003
UN4211TA
SWITCHING
Q1004
2SC1740SQSTA
SWITCHING
IC2002
TC9214P
ANALOG SWITCH
IC2001
LV3100M
PARAMETRIC
EQUALIZER
IC2003
M5218AP
BUFFER AMP
P. Equalizer signal.
Center speaker drive signal
Rear speaker drive signal
IC1003
LA2770
DOLBY PROLOGIC
FULL WAVE
LOG DIEF
L+R LOG DIEF
L-R
DUALT.C CONTROL
SW
VCA
NETWORK
COMBINING
1/2 Vcc
EL,L
ER,L
EL,R
ER,R
EC,L
ES,L
EC,R
ES,R
LOUT
ROUT
GND
VREF
BPF
OSC
LIN
RIN
Vcc
NOISE SW
4/3SW
LSB
MSB
BOOST
CUT
LIN
NC
LOUT
VREFL
MIX
ROUT
RIN
L ch LOW
L ch LOW MID
L ch HIGH MID
L ch HIGH
R ch LOW
R ch LOW MID
R ch HIGH MID
R ch HIGH
VREFR
GND
Vcc
CL
Vss
DI
CE
VDD
C1034 0.01
R1006 22K
R1005 22K
C1049 0.01
C1039 50V4.7
C1038 50V4.7
ΔR1009 1/2W68
D1001 MA4120MTA
R1008 1K
R1007 820K
C1029 16V10
R2001 47K
R2039 5.6K
C2039 50V3.3
R2040 5.6K
C2040 50V3.3
R2035 2.2K
R2033 5.6K
C2031 33P
C2001 35V4.7
C2032 33P
R2034 5.6K
R2007 100K
R2008 100K
R2009 47K
R2010 47K
CN1002A
Lch OUT
+B(2)
EQ SW
+B(1)
-B(1)
C. MUTE
S. MUTE
To L MAIN CIRCUIT(CN1002)
On page 35
CN1001A
EQ CE
DI
CL
A. GND
A. GND
Rch OUT
D. GND
To L MAIN CIRCUIT(CN1001)
On page 35
5.7V
-14.9V

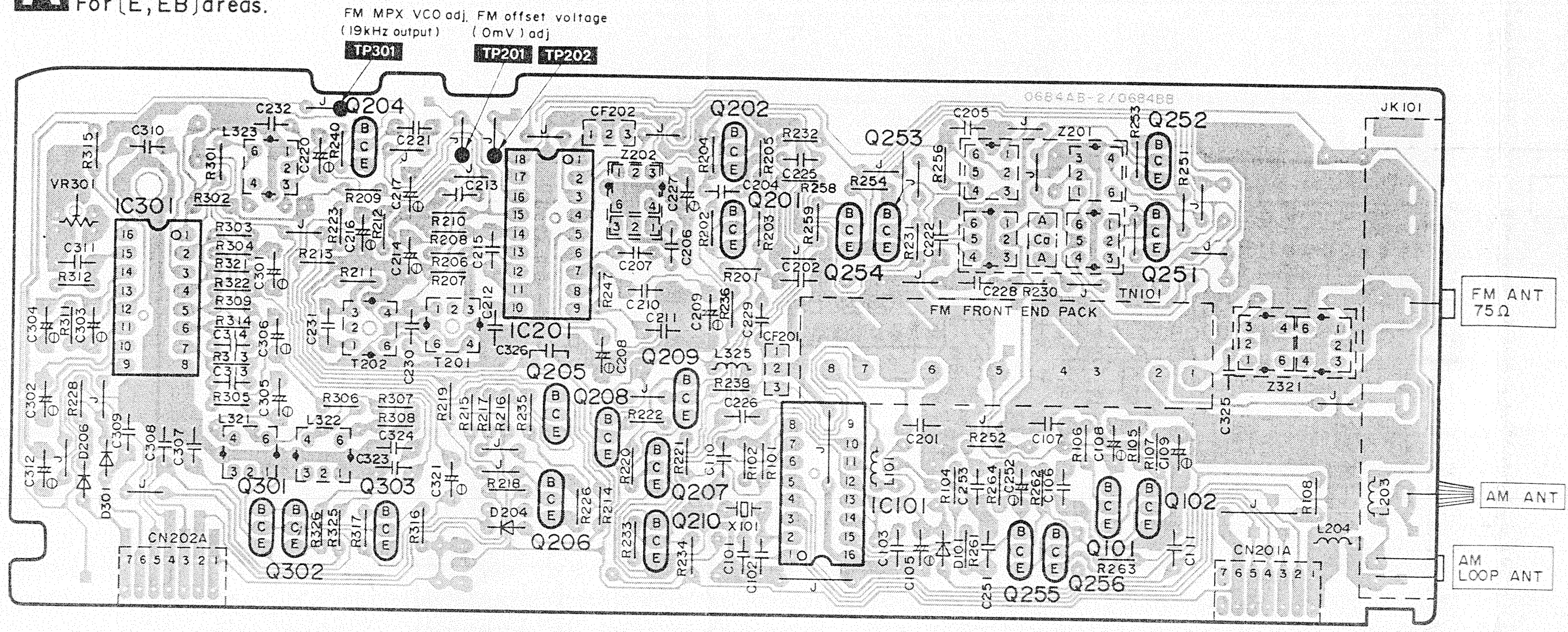
D SURROUND CIRCUIT


15
16
17
18
19
20
21
22
23
24
On page 35
To L MAIN CIRCUIT (CN1301)
On page 35
To L MAIN CIRCUIT (CN1303)
CN1301A
CVR IN
CP OUT
GND
C.IN
-B(1)
S.IN
+B(1)
CVR OUT
+B(2)
C.MUTE
CN1303A
IC1401
TA7629P
DOLBY B NR
IC1402
IC1403
TC9212P
ATTENUATOR
IC1402, 1404
AN6554F
BUFFER AMP
IC1404
IC1405
M50198P
DIGITAL DELAY
D1402
MA165TA
L1401
100μH
X1401
(3MHz)
A. GND
D. GND
MUTE SEL
MUTE
MODE
DEL 4
DEL 3
DEL 2
DEL 1
OSC OUT
OSC IN
D. VDD
LPF2 OUT
LPF2 IN
OP2 OUT
OP2 IN
CC2
CC1
REF
OP1 IN
OP1 OUT
LPF1 OUT
LPF1 IN
A.Vcc
CN1302A
CK2
DT2
CT2
GND
S.VOL IN
S.VOL OUT
S.MUTE
To L MAIN CIRCUIT (CN1302) On page 35
CLK
DATA STB
ATT
-VDD
+VDD
Q1304
Q1303
Q1302
Q1301
Q1302, 1304
2SA1309AQSTA
MUTING CONT.
Q1301, 1303
2SC3327ABTP
MUTING
IC1301
SV13101C
POWER AMP
(REAR / CENTER)
Δ IC1301
GND
-Vcc L
MUTE
ACIN
LATCH
-Vcc
+Vcc
OUT
D1301
D1302
D1303
D1304
GP15GLF
C1317
500V0.01
C1315
35V3300
C1316
35V3300
-18.6V
-18.8V
CN703D
AC
AC
GND
C. OUT
GND
S. OUT
GND
CN703C
To L MAIN CIRCUIT (W703) On page 36
14.7V
-14.9V
5.7V

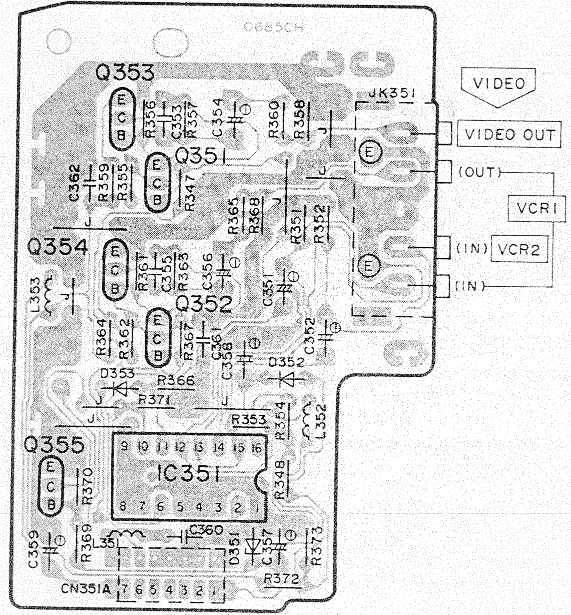
PRINTED CIRCUIT BOARDS


GND
AUDIO
PHONO
CD
TAPE/DAT
(REC OUT)
(PLAYBACK)
VCR2
(IN)
VCR1
(OUT)
(IN)
CENTER OUT
REMOTE CONTROL OUT
SPEAKERS
(CENTER)
(REAR)
(FRONT)
(B)
(A)
L
MAIN P.C.B.
IC401
IC451
IC501
IC502
IC503
IC601
RL601
E401
E601
E707
JK401
JK402
JK404
JK405
JK408
JK409
JK651
JK604
JK603
JK602
JK601
CN201
CN202
CN901
CN902
CN903
CN905
CN906
CN907
CN601
CN604
W602
W702
W703
Q103
Q104
Q503
Q504
Q505
Q506
Q508
Q509
Q510
Q511
Q512
Q513
Q601
Q651
Q652
Q653
Q654
Q655
Q701
Q702
Q703
Q704
Q705
Q708
Q709
Q710
Q713
Q752
Q894
Q895
Q896
Q897
C701
C702
1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G

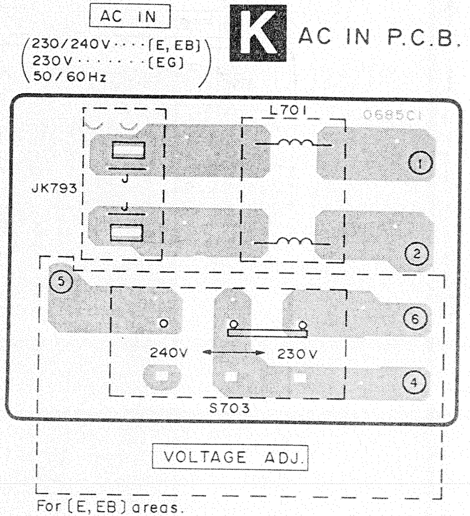
A TUNER P.C.B.
For (E, EB) areas.


FM MPX VCO adj. (19kHz output)
TP301
FM offset voltage (0mV) adj
TP201
TP202
0684AB-2/0684BB
IC301
IC201
IC101
FM FRONT END PACK
TN101
Z321
JK101
FM ANT 75Ω
AM ANT
AM LOOP ANT
CN202A
CN201A

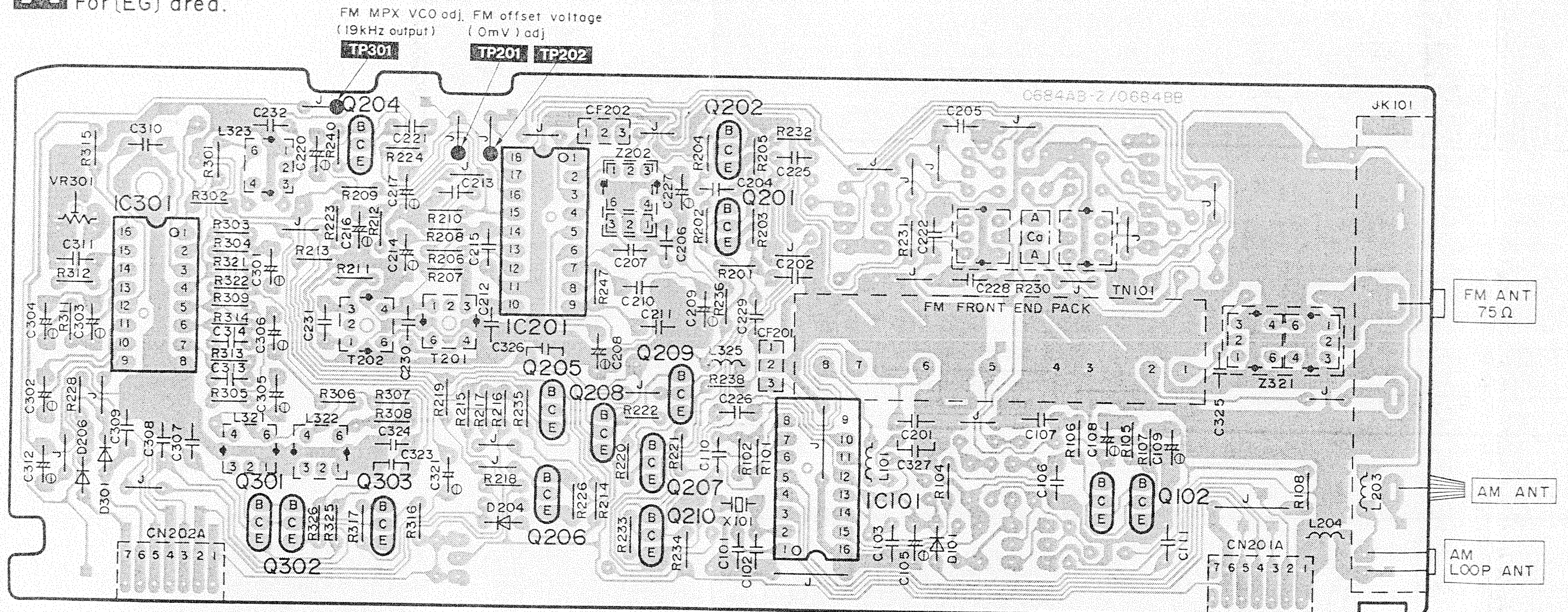
B VIDEO P.C.B.


0685CH
Q353
Q351
Q354
Q352
Q355
IC351
JK351
VIDEO
VIDEO OUT
(OUT)
VCR1
(IN) VCR2
(IN)
CN351A

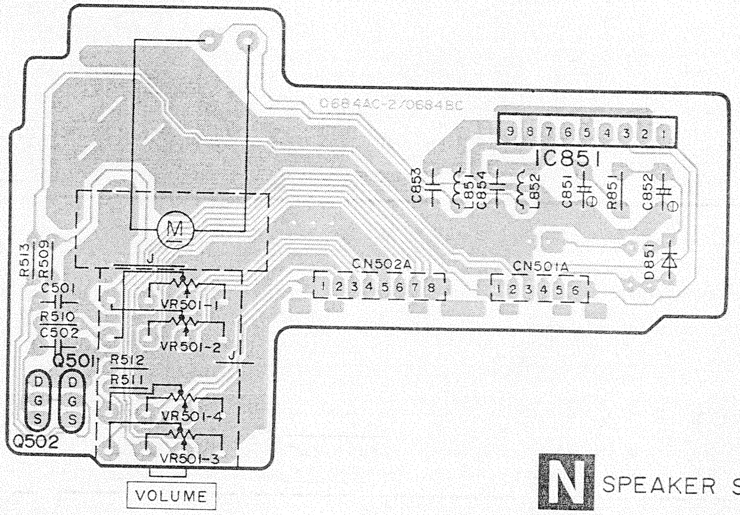
K AC IN P.C.B.


AC IN
230/240V ····(E, EB)
230V ·········(EG)
50/60Hz
0685CI
L701
JK793
240V
230V
S703
VOLTAGE ADJ.
For (E, EB) areas.

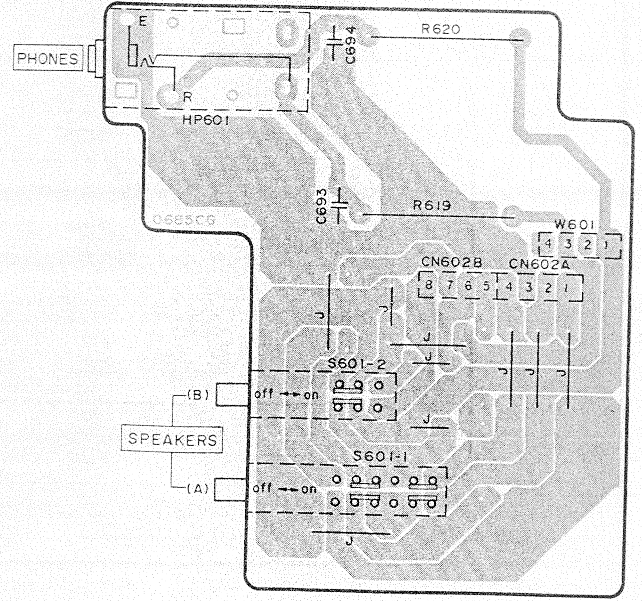
A TUNER P.C.B.
For (EG) area.


FM MPX VCO adj. (19kHz output)
TP301
FM offset voltage (0mV) adj
TP201
TP202
0684AB-2/0684BB
IC301
IC201
IC101
FM FRONT END PACK
TN101
Z321
JK101
FM ANT 75Ω
AM ANT
AM LOOP ANT
CN202A
CN201A

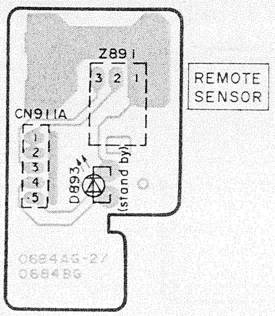
J VOLUME P.C.B.


0684AC-2/0684BC
IC851
CN502A
CN501A
VR501-1
VR501-2
VR501-4
VR501-3
Q501
Q502
VOLUME

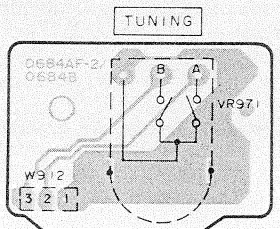
N SPEAKER SWITCH P.C.B.

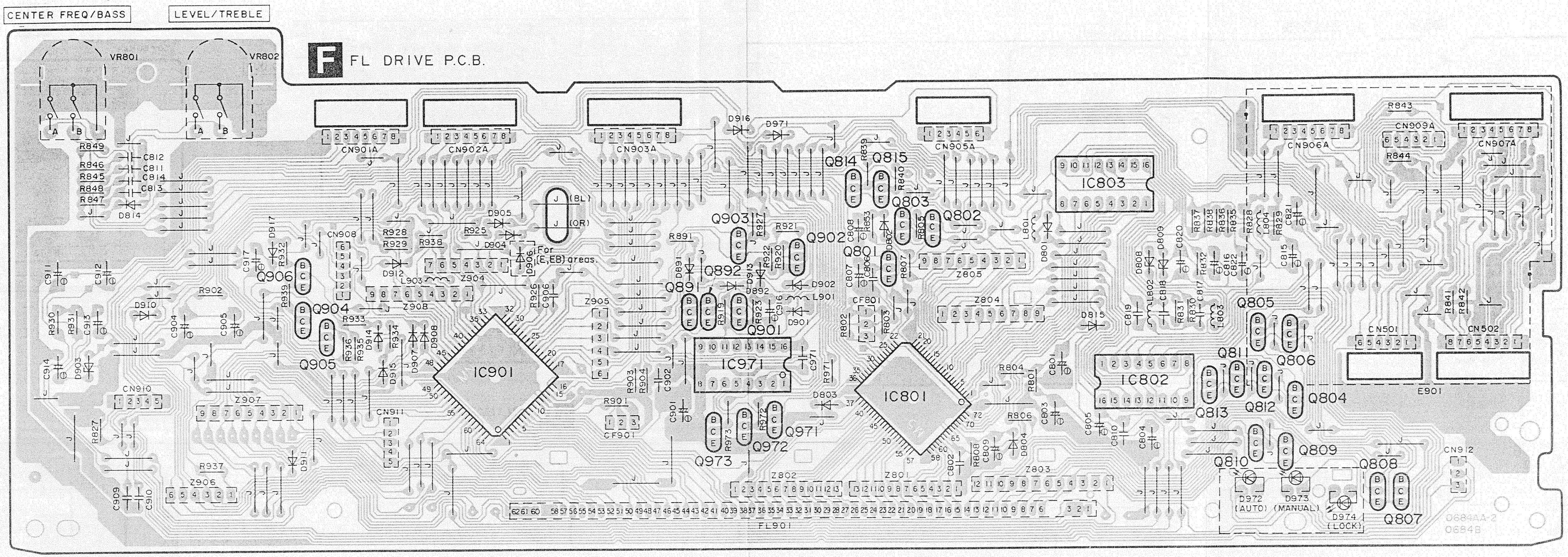

PHONES
HP601
R620
R619
0685CG
W601
CN602B
CN602A
S601-2
S601-1
SPEAKERS
(B)
(A)
off → on

I REMOTE SENSOR P.C.B.


Z891
CN911A
D893 (stand by)
REMOTE SENSOR
0684AG-2/0684BG

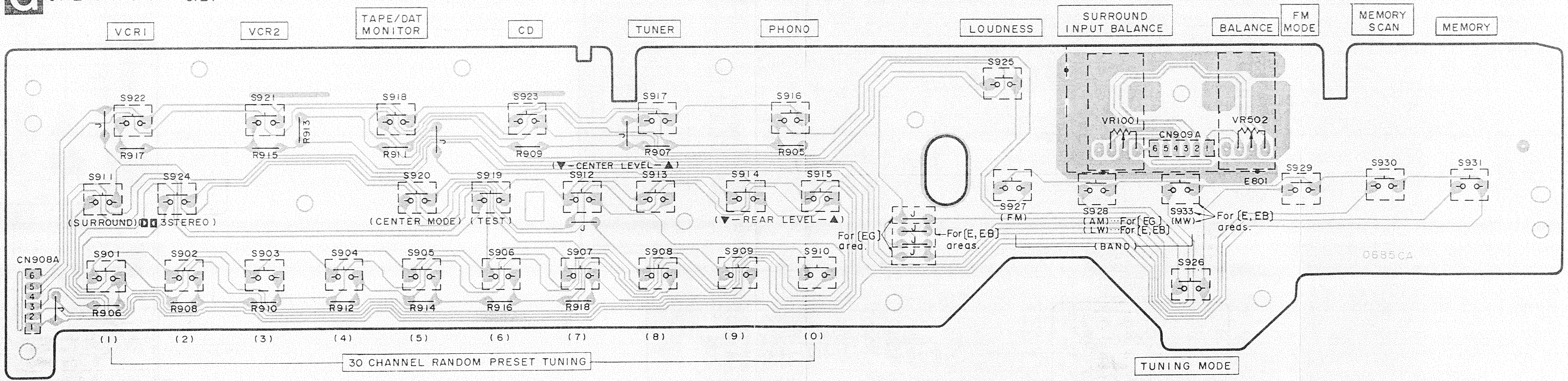
E TUNING VOLUME P.C.B


TUNING
0684AF-2/0684B
VR971
W912



F FL DRIVE P.C.B.

CENTER FREQ/BASS
LEVEL/TREBLE
VR801
VR802
CN901A
CN902A
CN903A
CN905A
CN906A
CN909A
CN907A
IC803
IC901
IC971
IC801
IC802
Q903
Q902
Q814
Q815
Q803
Q802
Q801
Q892
Q891
Q901
Q906
Q904
Q905
Q971
Q972
Q973
Q805
Q806
Q811
Q812
Q813
Q804
Q810
Q809
Q808
Q807
(BL)
(OR)
For (E,EB) areas.
CN908
CN910
CN911
CN501
CN502
CN912
E901
Z904
Z905
Z907
Z908
Z906
Z802
Z801
Z803
Z804
Z805
CF901
FL901
D972 (AUTO)
D973 (MANUAL)
D974 (LOCK)
0684AA-2
0684B

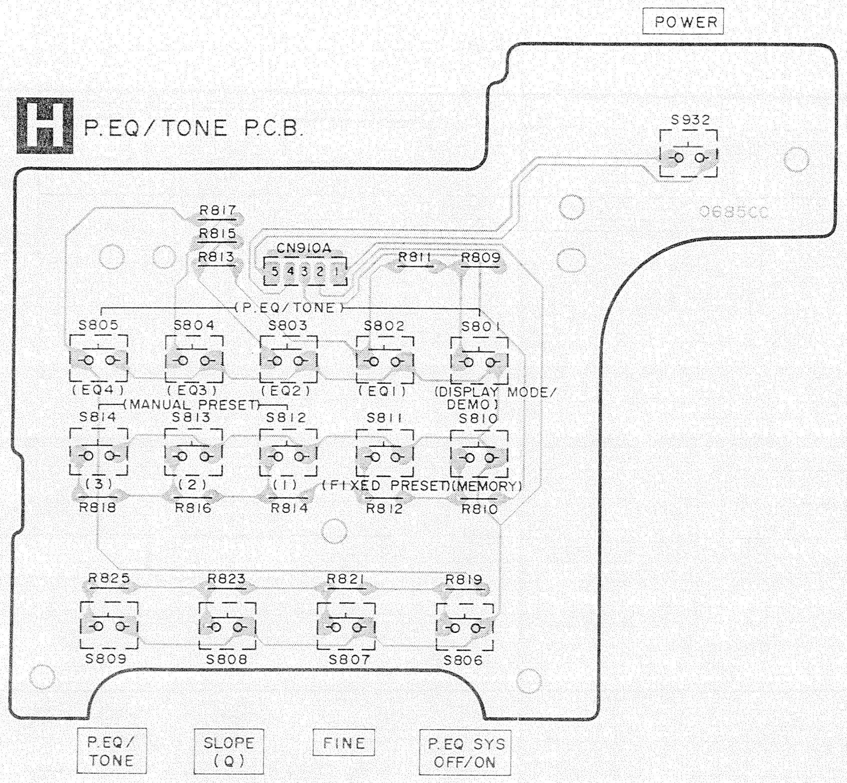


G OPERATION P.C.B.

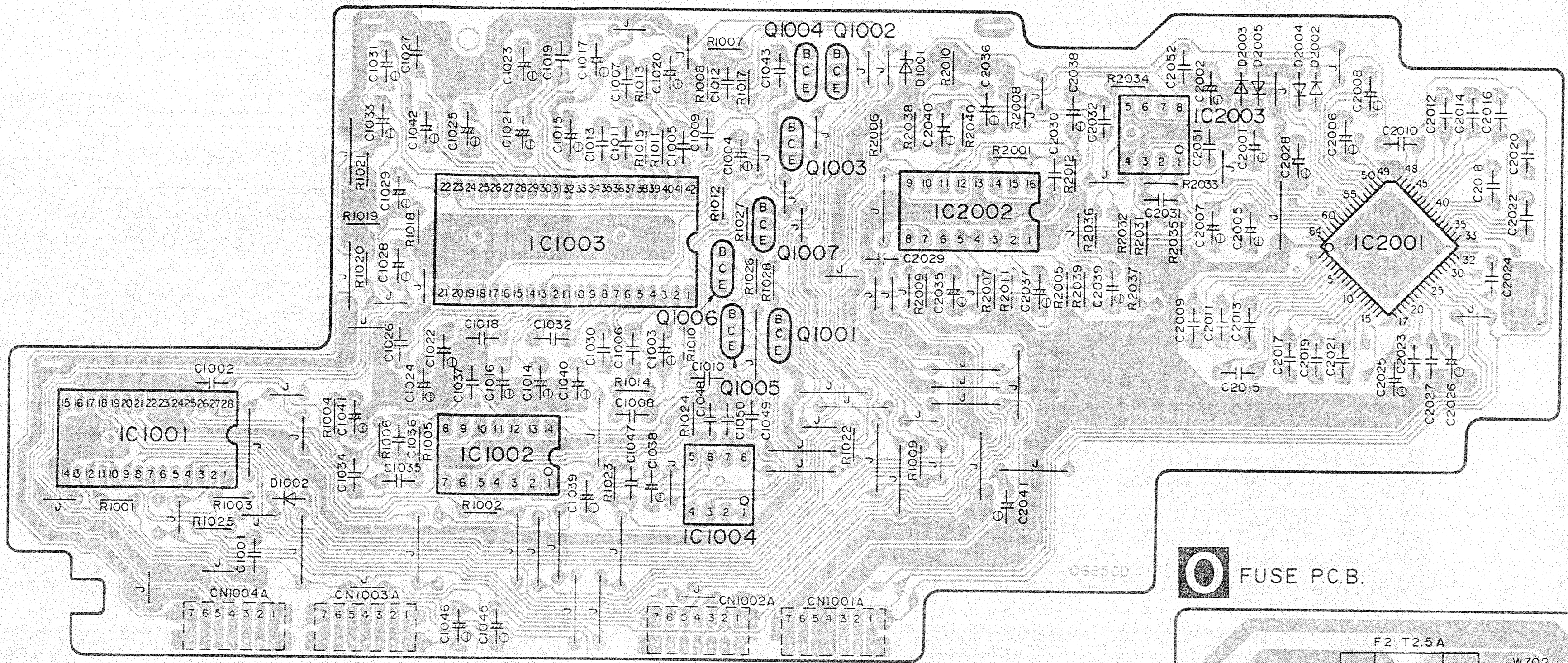
VCR1
VCR2
TAPE/DAT MONITOR
CD
TUNER
PHONO
LOUDNESS
SURROUND INPUT BALANCE
BALANCE
FM MODE
MEMORY SCAN
MEMORY
S922
S921
S918
S923
S917
S916
S925
S911
S924
(SURROUND) 3STEREO
S920
(CENTER MODE)
S919
(TEST)
S912
S913
(▼—CENTER LEVEL—▲)
S914
S915
(▼—REAR LEVEL—▲)
For (EG) area.
For (E,EB) areas.
S927 (FM)
S928 (AM) For (EG) (LW) For (E,EB)
S933 (MW)
For (E,EB) areas.
(BAND)
S926
VR1001
CN909A
VR502
E601
S929
S930
S931
CN908A
S901
S902
S903
S904
S905
S906
S907
S908
S909
S910
R906
R908
R910
R912
R914
R916
R918
(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)
(0)
30 CHANNEL RANDOM PRESET TUNING
TUNING MODE
0685CA

11 12 13 14 15 16 17 18 19

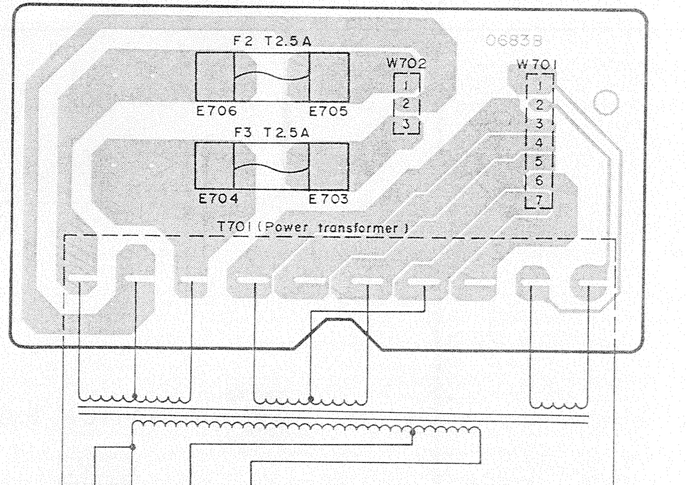
H P.EQ/TONE P.C.B.


POWER
S932
0685CC
R817
R815
R813
CN910A
R811
R809
P.EQ/TONE
S805 S804 S803 S802 S801
(EQ4) (EQ3) (EQ2) (EQ1) (DISPLAY MODE/DEMO)
(MANUAL PRESET)
S814 S813 S812 S811 S810
(3) (2) (1) (FIXED PRESET) (MEMORY)
R818 R816 R814 R812 R810
R825 R823 R821 R819
S809 S808 S807 S806
P.EQ/TONE
SLOPE (Q)
FINE
P.EQ SYS OFF/ON

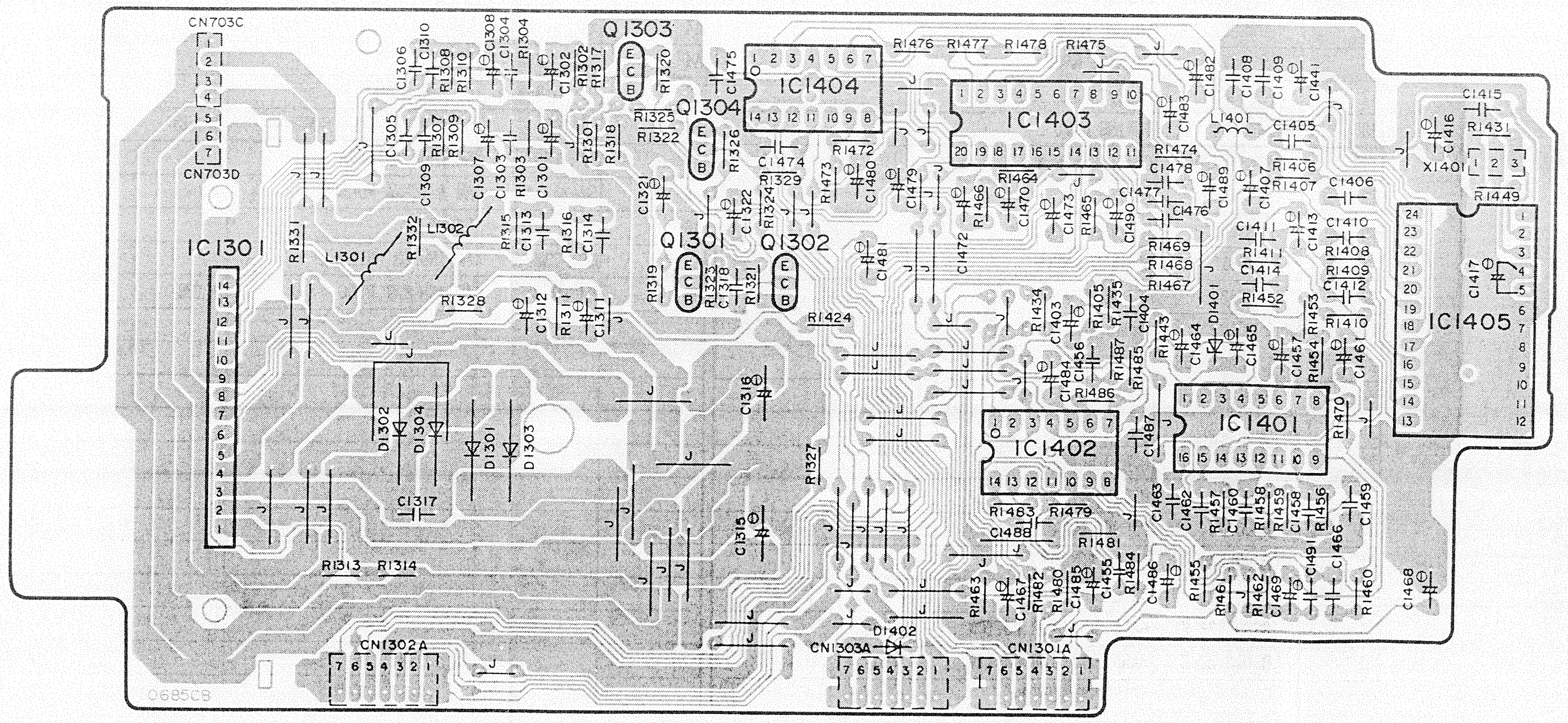
C PARAMETRIC EQ P.C.B.

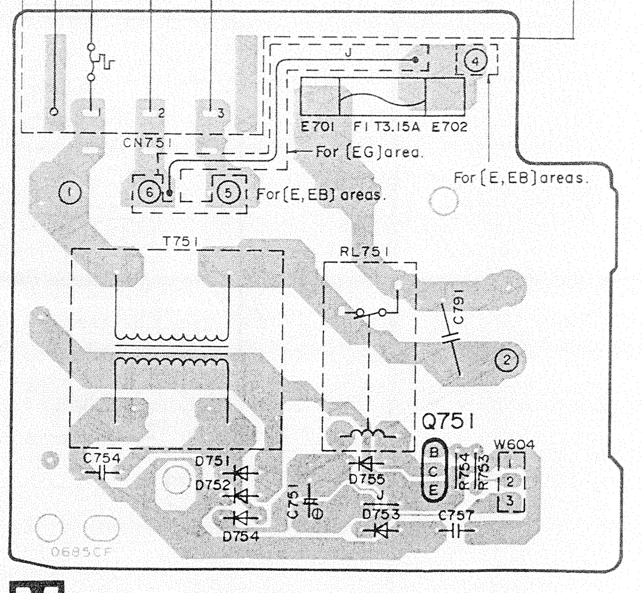

Q1004 Q1002
Q1003
Q1007
Q1006
Q1001
Q1005
IC1001
IC1002
IC1003
IC1004
IC2001
IC2002
IC2003
D1001
D1002
D2002 D2003 D2004 D2005
CN1004A
CN1003A
CN1002A
CN1001A
0685CD

O FUSE P.C.B.


0683B
F2 T2.5A
W702
W701
E706 E705
F3 T2.5A
E704 E703
T701 (Power transformer)

D SURROUND P.C.B.


CN703C
CN703D
Q1303
Q1304
Q1301
Q1302
IC1301
IC1401
IC1402
IC1403
IC1404
IC1405
L1301
L1302
L1401
X1401
D1301 D1302 D1303 D1304
D1401 D1402
CN1302A
CN1303A
CN1301A
0685CB

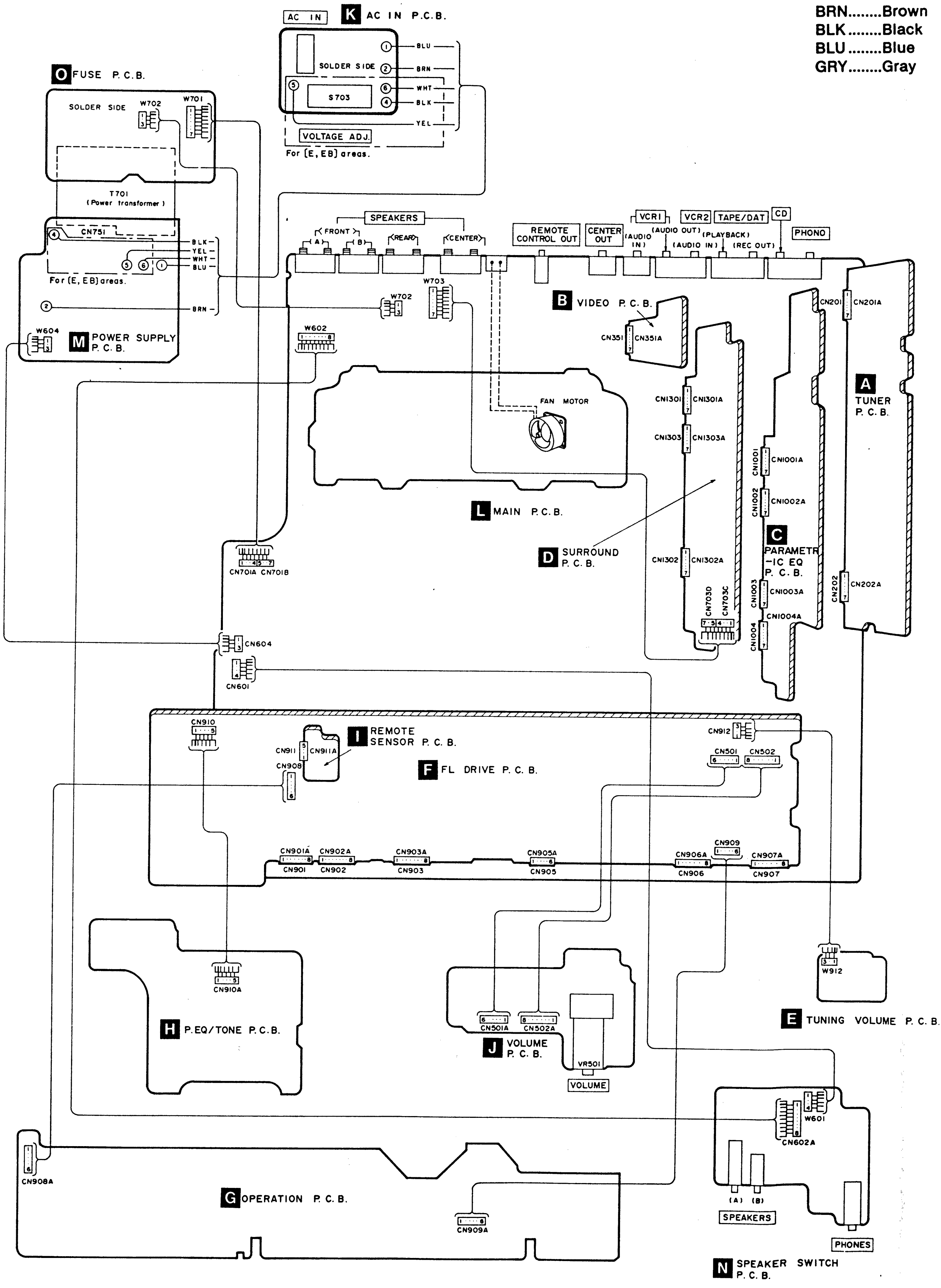

CN751
E701 F1 T3.15A E702
For [EG] area.
For [E, EB] areas.
For [E, EB] areas.
T751
RL751
C791
Q751
C754
D751 D752 D753 D754 D755
C751
C757
R753 R754
W604
0685CF

M POWER SUPPLY P.C.B.

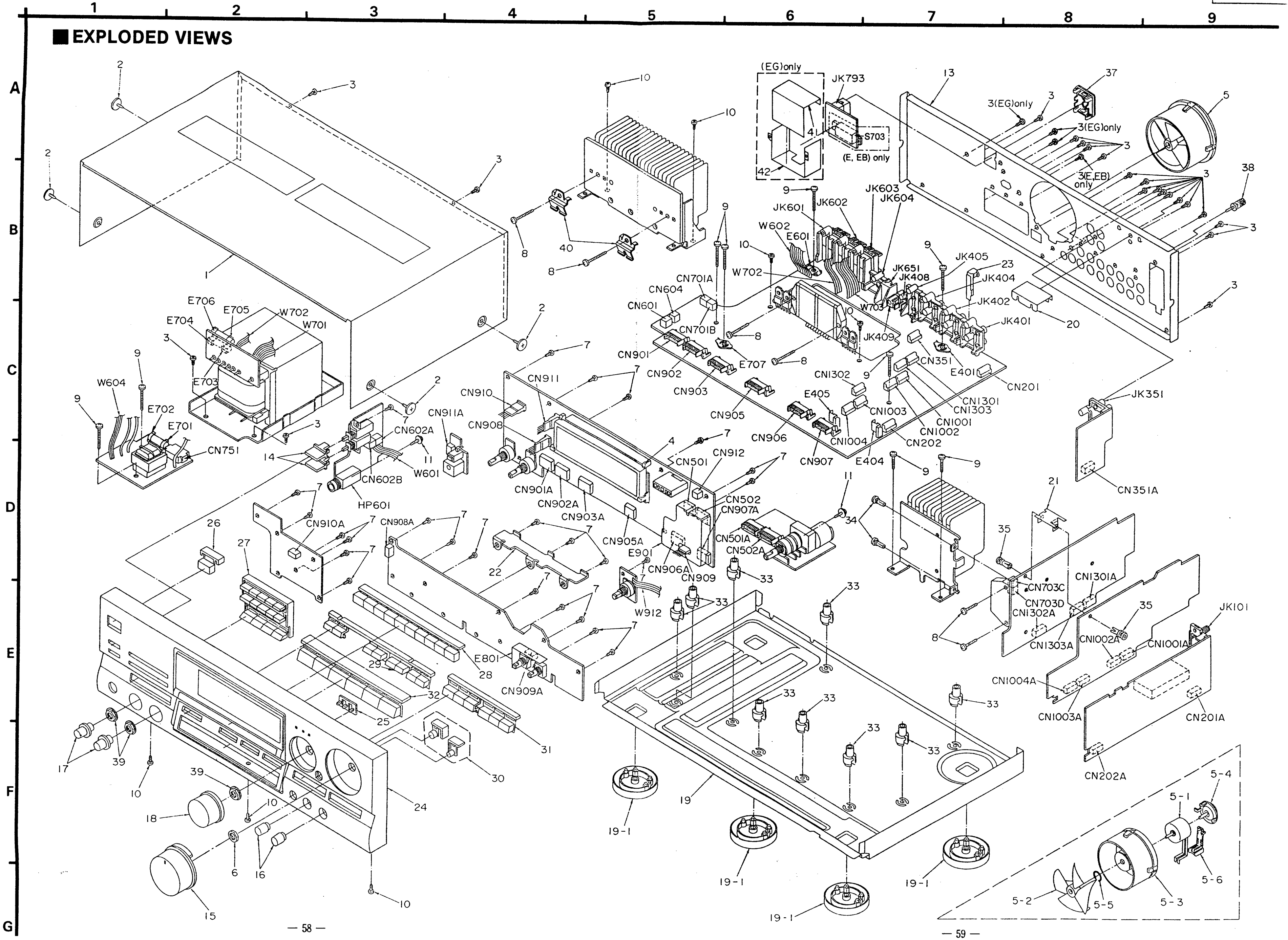
■WIRING CONNECTION DIAGRAM

Notes:

BRN........Brown
BLK........Black
BLU........Blue
GRY........Gray


AC IN
K AC IN P.C.B.
SOLDER SIDE
S703
VOLTAGE ADJ.
For (E, EB) areas.
BLU
BRN
WHT
BLK
YEL
① ② ④ ⑤ ⑥
O FUSE P.C.B.
SOLDER SIDE
W702
W701
T701 (Power transformer)
CN751
For (E, EB) areas.
W604
M POWER SUPPLY P.C.B.
SPEAKERS
FRONT
A
B
REAR
CENTER
REMOTE CONTROL OUT
CENTER OUT
VCR1 (AUDIO IN)
VCR2 (AUDIO OUT)
TAPE/DAT (PLAYBACK) (AUDIO IN) (REC OUT)
CD
PHONO
W703
W702
W602
B VIDEO P.C.B.
CN351
CN351A
FAN MOTOR
L MAIN P.C.B.
CN1301
CN1301A
CN1303
CN1303A
CN1302
CN1302A
CN703D
CN703C
D SURROUND P.C.B.
CN1001
CN1001A
CN1002
CN1002A
CN1003
CN1003A
CN1004
CN1004A
C PARAMETRIC EQ P.C.B.
CN201
CN201A
CN202
CN202A
A TUNER P.C.B.
CN701A CN701B
CN604
CN601
CN910
CN911
CN911A
CN908
I REMOTE SENSOR P.C.B.
F FL DRIVE P.C.B.
CN912
CN501
CN502
CN901A
CN901
CN902A
CN902
CN903A
CN903
CN905A
CN905
CN906A
CN906
CN909
CN907A
CN907
CN910A
H P.EQ/TONE P.C.B.
CN501A
CN502A
J VOLUME P.C.B.
VR501
VOLUME
W912
E TUNING VOLUME P.C.B.
W601
CN602A
(A) (B)
SPEAKERS
PHONES
N SPEAKER SWITCH P.C.B.
CN908A
G OPERATION P.C.B.
CN909A

■ EXPLODED VIEWS


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
2
3
2
3
1
2
2
3
E706
E705
W702
W701
E704
E703
9
W604
9
E702
E701
CN751
10
10
8
40
8
(EG)only
JK793
41
S703
(E, EB) only
42
13
37
3(EG)only
3
3(EG)only
3
5
3(E,EB) only
3
38
3
3
9
JK603
JK604
JK601
JK602
W602
E601
10
W702
CN701A
CN604
CN601
CN701B
W703
JK651
JK408
JK405
23
JK404
JK402
JK401
20
10
8
E707
8
JK409
CN901
CN902
CN903
CN905
7
7
CN911
CN910
CN908
CN911A
CN602A
11
W601
14
CN602B
HP601
7
3
CN1302
CN351
E401
CN201
CN1301
CN1303
CN1003
CN1001
CN1002
CN202
CN1004
E405
CN906
CN907
E404
JK351
CN351A
4
7
CN501
CN912
7
CN901A
CN902A
CN903A
CN905A
CN502
CN907A
CN501A
CN502A
E901
CN906A
CN909
W912
11
34
9
9
21
35
CN703C
CN703D
CN1301A
CN1302A
CN1303A
35
CN1002A
CN1001A
JK101
8
CN1004A
CN1003A
CN201A
CN202A
26
27
7
CN910A
CN908A
7
7
22
7
7
7
E801
28
29
32
25
31
30
CN909A
33
33
33
33
33
33
33
33
17
39
10
39
18
10
24
6
16
15
10
19
19-1
19-1
19-1
19-1
5-4
5-1
5-6
5-2
5-5
5-3

REPLACEMENT PARTS LIST

Notes :
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
- The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
  Parts without these indications can be used for all areas.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RKM0016A-K	CABINET	
2	SNE2129-3	SCREW	
3	XTBS3+8JFZ1	SCREW	
4	RMN0079-1	FL HOLDER	
5	REM0020-1	FAN UNIT	
5-1	MDN-4RB4MRC	MOTOR	
5-2	SHE232-1	FAN	
5-3	RMQ0209-K	FAN CASE	
5-4	RMQ0208-K	FAN CAP	
5-5	SUS271	SPRING	
5-6	RMQ0212-K	FAN TERMINAL CAP	
6	XNS7S	NUT	
7	XTBS26+8J	SCREW	
8	XTB3+16JFZ	SCREW	
9	XTB3+20JFZ	SCREW	
10	XTB3+8JFZ	SCREW	
11	XTWS3+10Q	SCREW	
13	RGR0126C-A1	REAR PANEL	(E)
13	RGR0126C-B1	REAR PANEL	(EB)
13	RGR0126D-A	REAR PANEL	(EG)
14	RGU0101	SPEAKER SELECTOR BUTTON	
15	RGW0084	VOLUME KNOB	
16	RGW0073	BALANCE KNOB	
17	RGW0083	BASS/TREBLE KNOB	
18	RGW0134	TUNING KNOB	
19	RFKJAGX500PP	CHASSIS ASS'Y	
19-1	RKA0009-1	FOOT	
20	RMA0295	PCB HOLD ANGLE A	
21	RMA0310	SUPPORT ANGLE	
22	RMN0139	PCB HOLD ANGLE B	
23	RSC0105	PHONO SHIELD PLATE	
24	RFKGAGX505E	FRONT PANEL ASS'Y	(E, EB)
24	RFKGAGX505P	FRONT PANEL ASS'Y	(EG)
25	RGL0129	PANEL LIGHT	
26	RGU0453-K	POWER BUTTON	
27	RGU0592	P. EQ BUTTON	
28	RGU0593	PRESET BUTTON	
29	RGU0594C	DOLBY BUTTON	
30	RGU0597	MODE BUTTON	
31	RGU0612B-K1	BAND SELECTOR BUTTON	(E, EB)
31	RGU0612C-K	BAND SELECTOR BUTTON	(EG)
32	RGU0613A-K	SELECTOR BUTTON	
33	SHE187-3	PCB SUPPORT	
34	SHR411	LATCH	
35	SHR415	LATCH	
37	SJS9231A	AC INLET COVER	
38	SNE2123	GND TERMINAL	
39	SNE4021-1	NUT	
40	SUS894-1	TRANSISTER ANGLE	
41	RFKNAGX505EG	SHIELD PLATE A	(EG)
42	RSC0240	SHIELD PLATE B	(EG)
		PACKING MATERIAL	
P1	RPG1056	PACKING CASE	
P2	RPN0324-2	PAD	
P3	XZB52X60A01Z	PROTECTION BAG (UNIT)	
P4	XZB24X33C04	PROTECTION BAG (F. B.)	(E)
P4	SPB1061	PROTECTION BAG (F. B.)	(EB, EG)
P5	SPSD152	ACCESSORIES BOX	
		ACCESSORIES	
A1	RFKSAGX505E	INSTRUCTION MANUAL ASS'Y	(E)
A1	RQT1272-B	INSTRUCTION MANUAL	(EB)
A1	RQT1273-D	INSTRUCTION MANUAL	(EG)
A2	RQA0013	WARRANTY CARD	
A3	RQCB0169	SERVICENTER LIST	
A4	RAK-SA502E	REMOTE CONTROL TRANSMITTER	
A4-1	RKK0020-K	BATTERY COVER	
A5	RJA0019-K	AC POWER SUPPLY CORD	⚠ (E, EG)
A5	SJA193	AC POWER SUPPLY CORD	⚠ (EB)
A6	SPB1163T	AM LOOP ANTENNA	
A6-1	SMA233-1M	AM ANTENNA HOLDER	
A6-2	XTN3+10AFZ	SCREW	
A7	SSA270M	FM INDOOR ANTENNA	
A8	SJP9009	ATTACHMENT PLUG	⚠ (EB)

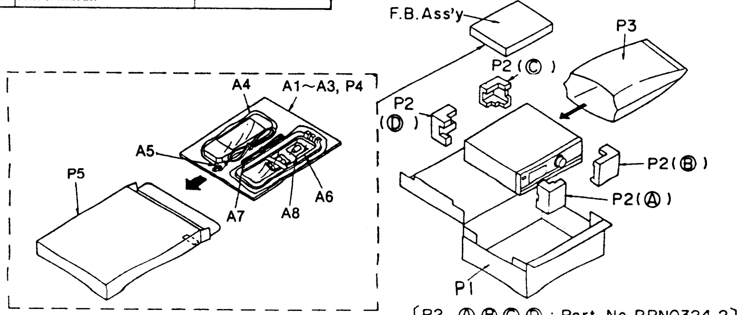
Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT (S)	
IC101	LM7001	IC, PLL FREQ. SYNTHESIZER	
IC201	AN7273A	IC, FM/AM IF AMP&MIXER	
IC301	SVIUPC1161C3	IC, FM MPX	
IC351	TC4053BP	IC, VIDEO SELECTOR	
IC401	TC9163N	IC, INPUT SELECTOR	
IC451	AN6558F	IC, PHONO EQ. AMP	
IC501	M5238P-1	IC, BUFFER AMP	
IC502	AN6558F	IC, FLAT AMP	
IC503	M5238P-1	IC, MIXING AMP	
IC601	SVI3206C	IC; POWER AMP	⚠
IC801	M50946-150FP	IC, MICROCOMPUTER	
IC802	TC74HC42AP	IC, FL DRIVE	
IC803	XR-1091DCP	IC, SPECTRUM ANALYZER	
IC851	BA6218	IC, MOTOR DRIVE	
IC901	MN187125STU	IC, MICROCOMPUTER	
IC971	MC14094BCP	IC, LED DRIVE	
IC1001	TC9162N	IC, MODE SELECTOR	
IC1002	LA2775	IC, NOISE SEQUENCER	
IC1003	LA2770	IC, DOLBY PROLOGIC	
IC1004	M5218AP	IC, BUFFER AMP	
IC1301	SVI3101C	IC, POWER AMP (REAR)	⚠
IC1401	TA7629P	IC, DOLBY B NR	
IC1402	AN6554F	IC, BUFFER AMP	
IC1403	TC9212P	IC, ATTENUATOR	
IC1404	AN6554F	IC, BUFFER AMP	
IC1405	M50198P	IC, DIGITAL DELAY	
IC2001	LV3100M	IC, PARAMETRIC EQUALIZER	
IC2002	TC9214P	IC, ANALOG SWITCH	
IC2003	M5218AP	IC, BUFFER AMP	
		TRANSISTOR (S)	
Q101, 102	2SC2785FE	TRANSISTOR	
Q103, 104	UN4214TA	TRANSISTOR	
Q201, 202	2SC2787L	TRANSISTOR	
Q204-207	2SC1740SQ	TRANSISTOR	
Q208, 209	2SA933SQR	TRANSISTOR	
Q210	2SC1740SQ	TRANSISTOR	
Q251	2SA933SQR	TRANSISTOR	(E, EB)
Q252-254	2SC1740SQ	TRANSISTOR	(E, EB)
Q255, 256	2SC2785FE	TRANSISTOR	(E, EB)
Q301, 302	2SD1450QRSTA	TRANSISTOR	
Q303	2SA933SQR	TRANSISTOR	
Q351, 352	2SC3311A-Q	TRANSISTOR	
Q353, 354	2SA720NC-Q	TRANSISTOR	
Q355	2SC1740SQ	TRANSISTOR	
Q501, 502	2SJ40CDTA	TRANSISTOR	
Q503, 504	2SC3327-A	TRANSISTOR	
Q505, 506	2SA1309A-R	TRANSISTOR	
Q508	UN4211	TRANSISTOR	
Q509, 510	2SC1740SQ	TRANSISTOR	
Q511, 512	2SC3327-A	TRANSISTOR	
Q513	2SC1740SQ	TRANSISTOR	
Q601	2SA992EFTA	TRANSISTOR	
Q651, 652	2SA1309A-R	TRANSISTOR	
Q653	2SB621A-R	TRANSISTOR	
Q654, 655	2SA1309A-R	TRANSISTOR	
Q701, 702	2SD1761DEF	TRANSISTOR	⚠
Q703	2SC2631QRSTA	TRANSISTOR	⚠
Q704	2SC3311A-Q	TRANSISTOR	
Q705	2SC3940AQSTA	TRANSISTOR	
Q708	2SB1187DEF	TRANSISTOR	⚠
Q709	2SC2631QRSTA	TRANSISTOR	⚠
Q710	2SB1187DEF	TRANSISTOR	⚠
Q713	2SC3311A-Q	TRANSISTOR	⚠
Q751	2SC1740SQ	TRANSISTOR	
Q752	2SC3940AQSTA	TRANSISTOR	
Q801	UN4214TA	TRANSISTOR	
Q802	UN4211	TRANSISTOR	
Q803	UN4111	TRANSISTOR	
Q804-813	UN4115	TRANSISTOR	
Q814, 815	UN4211	TRANSISTOR	
Q891	UN4113TA	TRANSISTOR	
Q892	UN4214TA	TRANSISTOR	
Q894	UN4211	TRANSISTOR	
Q895	2SB1240PRTV6	TRANSISTOR	
Q896	2SC1740SQ	TRANSISTOR	
Q897	2SB1240PRTV6	TRANSISTOR	
Q901	UN4214TA	TRANSISTOR	
Q902	2SA933SQR	TRANSISTOR	
Q903	UN4211	TRANSISTOR	
Q904, 905	2SC1740SQ	TRANSISTOR	
Q906	2SA933SQR	TRANSISTOR	
Q971-973	UN4215	TRANSISTOR	
Q1001-1003	UN4211	TRANSISTOR	
Q1004	2SC1740SQ	TRANSISTOR	
Q1005, 1006	2SC3327-A	TRANSISTOR	
Q1007	2SA1309A-R	TRANSISTOR	
Q1301	2SC3327-A	TRANSISTOR	
Q1302	2SA1309A-R	TRANSISTOR	
Q1303	2SC3327-A	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q1304	2SA1309A-R	TRANSISTOR	
		DIODE(S)	
D101	MA165	DIODE	
D204	MA165	DIODE	
D206	MA165	DIODE	
D301	MA165	DIODE	
D351	MA4030MTA	DIODE	
D352, 353	MA165	DIODE	
D501	MA700	DIODE	
D502-507	MA165	DIODE	
D602, 603	MA4120	DIODE	
D651	MA165	DIODE	
D652	MA4068M	DIODE	
D653, 654	MA165	DIODE	
D701-704	P300DLF	DIODE	⚠
D705	MA4062MTA	DIODE	
D706	MA4068M	DIODE	
D709	MA4330MTA	DIODE	
D710	MA29WA	DIODE	⚠
D711	MA4160-L	DIODE	
D712	MA4082MTA	DIODE	⚠
D751-754	1SR35200TB	DIODE	⚠
D755	MA165	DIODE	
D757	MA4068M	DIODE	
D785	MA165	DIODE	
D801	1SS291TA	DIODE	
D802-804	MA165	DIODE	
D808, 809	MA4062MTA	DIODE	
D814, 815	MA165	DIODE	
D851	1SR35200TB	DIODE	
D891, 892	MA165	DIODE	
D893	LN018304P	L. E. D.	
D894, 895	MA165	DIODE	
D901	1SS291TA	DIODE	
D902	MA165	DIODE	
D903	MA4056MTA	DIODE	
D904, 905	MA165	DIODE	
D906	MA165	DIODE	(E, EB)
D907, 908	MA165	DIODE	
D910-917	MA165	DIODE	
D971	MA165	DIODE	
D972-974	LN031527PH	L. E. D. BLOCK	
D1001	MA4120	DIODE	
D1002	MA165	DIODE	
D1301-1304	GP15GLF	DIODE	⚠
D1401	MA4120	DIODE	
D1402	MA165	DIODE	
D2002-2005	MA165	DIODE	
		VARIABLE RESISTOR(S)	
VR301	EVNDXAA00B53	V. R, FM VCO ADJ.	
VR501	EUWMJTF25B15	V. R, MAIN VOLUME	
VR502	EVJ02SF01G15	V. R, BALANCE	
VR801	EVQWQ202224B	V. R, CENTER FREQ/BASS	
VR802	EVQWQ202224B	V. R, LEVEL/TREBLE	
VR971	EVQWPCF2024B	V. R, ROTARY TUNING	
VR1001	EVJ02SF01G15	V. R, SURROUND BALANCE	
		COMPONENT COMBINATION(S)	
Z201	RLA6Z001-T	COMPONENT COMBINATION	(E, EB)
Z201	RLA2Z001-T	COMPONENT COMBINATION	(EG)
Z202	SLI7Z101-T	COMPONENT COMBINATION	
Z321	SLA4Z13-Z	COMPONENT COMBINATION	
Z801, 802	EXFP12331MF	COMPONENT COMBINATION	
Z803	EXBF12E104J	COMPONENT COMBINATION	
Z804, 805	EXBF9E473J	COMPONENT COMBINATION	
Z891	RCDHC-677	REMOTE SENSOR	
Z904	EXBF7E103J	COMPONENT COMBINATION	
Z905	EXBF6E103J	COMPONENT COMBINATION	
Z906	EXBF6E104J	COMPONENT COMBINATION	
Z907	EXFP8331MW	COMPONENT COMBINATION	
Z908	EXBF9E104J	COMPONENT COMBINATION	
		COIL(S)	
L101	RLQZPR47KT-Y	COIL	
L203, 204	ELEPKR22MA	COIL	(E, EB)
L203, 204	ELEPK1R0MA	COIL	(EG)
L321, 322	RLM2B003-K	COIL	
L323	SLM1B10M-1M	COIL	
L325	RLQZP1R2KT-Y	COIL	
L351-354	RLQZP1R0KT-Y	COIL	
L401	RLQZPR47KT-Y	COIL	
L601, 602	SLQY07G-40	COIL	
L701	SLQZ650MH49	COIL	⚠
L801	RLQZP101KT-Y	COIL	
L802-804	RLQZP4R7KT-Y	COIL	
L851, 852	RLQZP1R0KT-Y	COIL	
L901, 902	ELEPK101KA	COIL	
L903	RLQZP101KT-Y	COIL	
L1301, 1302	SLQY07G-40	COIL	
L1401	ELEPK101KA	COIL	
		TRANSFORMER(S)	
T201	RLI4B012-Z	TRANSFORMER	
T202	RLI4B013-Z	TRANSFORMER	
T701	RTP1Q5E006-V	TRANSFORMER	⚠
T751	RTP1I5E003-V	TRANSFORMER	⚠

Ref. No.	Part No.	Part Name & Description	Remarks
		FUSE(S)	
F1	XBA2C31TB0	FUSE, 250V 3.15A	⚠
F2, F3	XBA2C25TB0	FUSE, 250V 2.5A	⚠
		FILTER(S) & OSCILLATOR(S)	
CF201, 202	RLFKTF2MD1LA	RED(10.700MHz)	
CF201, 202	RLFKTF2MD1LB	BLUE(10.675MHz)	
CF201, 202	RLFKTF2MD1LC	ORANGE(10.725MHz)	
CF801	EF0GC6004T4	OSCILLATOR(6MHz)	
CF901	EF0GC4194T4	OSCILLATOR(4.19MHz)	
		OSCILLATOR(S)	
X101	SVQ49U722-S	OSCILLATOR(7.2MHz)	
X1401	EF0GC3004T4	OSCILLATOR(3MHz)	
		DISPLAY TUBE	
FL901	RSL0101-F	DISPLAY TUBE	
		SWITCH(ES)	
S601	RSP2008-J	SW, SPEAKERS	
S703	ESD26200A	SW, VOLTAGE ADJ.	(E, EB)⚠
S801	EVQ21405R	SW, DISPLAY MODE	
S802	EVQ21405R	SW, EQ1	
S803	EVQ21405R	SW, EQ2	
S804	EVQ21405R	SW, EQ3	
S805	EVQ21405R	SW, EQ4	
S806	EVQ21405R	SW, P. EQ SYS ON/OFF	
S807	EVQ21405R	SW, FINE	
S808	EVQ21405R	SW, SLOPE(Q)	
S809	EVQ21405R	SW, P. EQ/TONE	
S810	EVQ21405R	SW, P. EQ/MEMORY	
S811	EVQ21405R	SW, FIXED PRESET	
S812	EVQ21405R	SW, MANUAL PRESET 1	
S813	EVQ21405R	SW, MANUAL PRESET 2	
S814	EVQ21405R	SW, MANUAL PRESET 3	
S901	EVQ21405R	SW, PRESET TUNING 1	
S902	EVQ21405R	SW, PRESET TUNING 2	
S903	EVQ21405R	SW, PRESET TUNING 3	
S904	EVQ21405R	SW, PRESET TUNING 4	
S905	EVQ21405R	SW, PRESET TUNING 5	
S906	EVQ21405R	SW, PRESET TUNING 6	
S907	EVQ21405R	SW, PRESET TUNING 7	
S908	EVQ21405R	SW, PRESET TUNING 8	
S909	EVQ21405R	SW, PRESET TUNING 9	
S910	EVQ21405R	SW, PRESET TUNING 0	
S911	EVQ21405R	SW, SURROUND	
S912	EVQ21405R	SW, CENTER LEVEL(DOWN)	
S913	EVQ21405R	SW, CENTER LEVEL(UP)	
S914	EVQ21405R	SW, REAR LEVEL(DOWN)	
S915	EVQ21405R	SW, REAR LEVEL(UP)	
S916	EVQ21405R	SW, INPUT SELECTOR(PHONO)	
S917	EVQ21405R	SW, INPUT SELECTOR(TUNER)	
S918	EVQ21405R	SW, TAPE/DAT MONITOR	
S919	EVQ21405R	SW, TEST	
S920	EVQ21405R	SW, CENTER MODE	
S921	EVQ21405R	SW, INPUT SELECTOR(VCR2)	
S922	EVQ21405R	SW, INPUT SELECTOR(VCR1)	
S923	EVQ21405R	SW, INPUT SELECTOR(CD)	
S924	EVQ21405R	SW, 3 STEREO	
S925	EVQ21405R	SW, LOUDNESS	
S926	EVQ21405R	SW, TUNING MODE	
S927	EVQ21405R	SW, BAND SELECTOR(FM)	
S928	EVQ21405R	SW, BAND SELECTOR(AM/LW)	
S929	EVQ21405R	SW, FM MODE	
S930	EVQ21405R	SW, MEMORY SCAN	
S931	EVQ21405R	SW, MEMORY	
S932	EVQ21405R	SW, POWER	
S933	EVQ21405R	SW, BAND SELECTOR(MW)	(E, EB)
		CONNECTOR(S) & SOCKET(S)	
CN201	RJT057W007-1	CONNECTOR(7P)	
CN201A	RJU057W007	SOCKET(7P)	
CN202	RJT057W007-1	CONNECTOR(7P)	
CN202A	RJU057W007	SOCKET(7P)	
CN351	RJT057W007-1	CONNECTOR(7P)	
CN351A	RJU057W007	SOCKET(7P)	
CN501	RJT003K006M1	CONNECTOR(6P)	
CN501A	RJU003K006M1	SOCKET(6P)	
CN502	RJT003K008M1	CONNECTOR(8P)	
CN502A	RJU003K008M1	SOCKET(8P)	
CN601	RJS1A1704	CONNECTOR(4P)	
CN602A	RJS1A1704	CONNECTOR(4P)	
CN602B	RJS1A1704	CONNECTOR(4P)	
CN604	RJS1A1703	CONNECTOR(3P)	
CN701A	RJS1A1704	CONNECTOR(4P)	
CN701B	RJS1A1703	CONNECTOR(3P)	
CN701C	RJS1A1704	CONNECTOR(4P)	
CN701D	RJS1A1703	CONNECTOR(3P)	
CN751	SJS305-1	CONNECTOR(3P)	
CN901A	RJT003K008M1	CONNECTOR(8P)	
CN901	RJU003K008M1	SOCKET(8P)	
CN902A	RJT003K008M1	CONNECTOR(8P)	
CN902	RJU003K008M1	SOCKET(8P)	
CN903A	RJT003K008M1	CONNECTOR(8P)	
CN903	RJU003K008M1	SOCKET(8P)	
CN905A	RJT003K006M1	CONNECTOR(6P)	
CN905	RJU003K006M1	SOCKET(6P)	
CN906A	RJT003K008M1	CONNECTOR(8P)	

Ref. No.	Part No.	Part Name & Description	Remarks
CN906	RJU003K008M1	SOCKET (8P)	
CN907A	RJT003K008M1	CONNECTOR (8P)	
CN907	RJU003K008M1	SOCKET (8P)	
CN908	SJT30648BB1	CONNECTOR (6P)	
CN908A	SJS50681BB	SOCKET (6P)	
CN909	SJT30648BB1	CONNECTOR (6P)	
CN909A	SJS50681BB	SOCKET (6P)	
CN910	SJT30548BB1	CONNECTOR (5P)	
CN910A	SJS50581BB	SOCKET (5P)	
CN911	SJT30549BB1	CONNECTOR (5P)	
CN911A	SJS50581BB	SOCKET (5P)	
CN912	RJS1A1703	CONNECTOR (3P)	
CN1001	RJT057W007-1	CONNECTOR (7P)	
CN1001A	RJU057W007	SOCKET (7P)	
CN1002	RJT057W007-1	CONNECTOR (7P)	
CN1002A	RJU057W007	SOCKET (7P)	
CN1003	RJT057W007-1	CONNECTOR (7P)	
CN1003A	RJU057W007	SOCKET (7P)	
CN1004	RJT057W007-1	CONNECTOR (7P)	
CN1004A	RJU057W007	SOCKET (7P)	
CN1301	RJT057W007-1	CONNECTOR (7P)	
CN1301A	RJU057W007	SOCKET (7P)	
CN1302	RJT057W007-1	CONNECTOR (7P)	
CN1302A	RJU057W007	SOCKET (7P)	
CN1303	RJT057W007-1	CONNECTOR (7P)	
CN1303A	RJU057W007	SOCKET (7P)	
CN501A	RJU003K006M1	SOCKET (6P)	
CN502A	RJU003K008M1	SOCKET (8P)	
CN602A	RJS1A1704	SOCKET (4P)	
CN701A	RJS1A1704	SOCKET (4P)	
CN908A	SJS50681BB	SOCKET (6P)	
CN909A	SJS50681BB	SOCKET (6P)	
CN910A	SJS50581BB	SOCKET (5P)	
CN911A	SJS50581BB	SOCKET (5P)	
CN602B	RJS1A1704	SOCKET (4P)	
CN701B	RJS1A1703	CONNECTOR (3P)	
CN703C	RJS1A1704	SOCKET (4P)	
CN703D	RJS1A1703	CONNECTOR (3P)	
		SHIELD PART (S)	
E401	SNE1004-1	GND PLATE	
E404, 405	SME103-6	P. C. B. HOLDER	
E601	SNE1004-1	GND PLATE	
E701-706	EYF52BC	FUSE HOLDER	
E707	SNE1004-1	GND PLATE	
E801	RSC0218	SHIELD PLATE	
E901	RSC0219	SHIELD PLATE	
		JACK (S)	
JK101	RJH4202	ANTENNA TERMINAL	
JK351	SJF3069-3N	VCR1/VCR2/VIDEO OUT	
JK401	SJF3069N	TERMINAL, PHONO/CD	
JK402	SJF3069N	TERMINAL, TAPE/DAT	
JK404	SJF3069N	TERMINAL, VCR1/VCR2	
JK405	SJF3068N	TERMINAL, VCR1	
JK408	SJFD7	CENTER OUT	
JK409	RJJ33TR01	REMOTE CONTROL OUT	
JK601	RJR0054A	FRONT SPEAKERS A	
JK602	RJR0054A	FRONT SPEAKERS B	
JK603	RJR0054A	REAR SPEAKERS	
JK604	SJF5201-2	CENTER SPEAKER	
JK651	RJS1A7402-1	MOTOR JACK	
JK793	SJS9231-1B	AC INLET	⚠
HP601	RJJ63TS01	HEADPHONES JACK	
		RELAY (S)	
RL601	SSY134	RELAY	
RL751	RSY0005-1C	RELAY	⚠
		FRONT END PACK ASS'Y	
TN101	SNVFE337G01	FM FRONT END	
		FLAT CABLE (S)	
W601	RWJ1804120QK	FLAT CABLE (4P)	
W602	RWJ1808320QK	FLAT CABLE (8P)	
W604	RWJ1803120QK	FLAT CABLE (3P)	
W701	RWJ1807150QK	FLAT CABLE (7P)	
W702	RWJ1803220KK	FLAT CABLE (3P)	
W703	RWJ1807430QK	FLAT CABLE (7P)	
W912	RWJ1803110QK	FLAT CABLE (3P)	

■ PACKING



[P2 Ⓐ Ⓑ Ⓒ Ⓓ : Part No. RPN0324-2]

■ RESISTORS & CAPACITORS

Notes : • Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
• Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R101, 102	ERDS2TJ103	1/4W 10K
R104	ERDS2TJ102	1/4W 1K
R105	ERDS2TJ561	1/4W 560
R106	ERDS2TJ562	1/4W 5.6K
R107	ERDS2TJ103	1/4W 10K
R108	ERDS2TJ151	1/4W 150
R109-111	ERDS2TJ104	1/4W 100K
R201	ERDS2TJ103	1/4W 10K
R202	ERDS2TJ824	1/4W 820K
R203	ERDS2TJ331	1/4W 330
R204	ERDS2TJ824	1/4W 820K
R205	ERDS2TJ271	1/4W 270
R206	ERDS2TJ561	1/4W 560
R207	ERDS2TJ822	1/4W 8.2K
R208	ERDS2TJ102	1/4W 1K
R209	ERDS2TJ471	1/4W 470
R210	ERDS2TJ332	1/4W 3.3K
R211	ERDS2TJ222	1/4W 2.2K
R212	ERDS2TJ153	1/4W 15K
R213	ERDS2TJ104	1/4W 100K
R214	ERDS2TJ824	1/4W 820K
R215	ERDS2TJ153	1/4W 15K
R216	ERDS2TJ563	1/4W 56K
R217	ERDS2TJ223	1/4W 22K
R218	ERDS2TJ563	1/4W 56K
R219	ERDS2TJ223	1/4W 22K
R220	ERDS2TJ103	1/4W 10K
R221	ERDS2TJ104	1/4W 100K
R222	ERDS2TJ473	1/4W 47K
R223	ERDS2TJ154	1/4W 150K
R224	ERDS2TJ223	1/4W 22K (EG)
R226	ERDS2TJ103	1/4W 10K
R228	ERDS2TJ123	1/4W 12K
R229	ERDS2TJ102T	1/4W 1K (EG)
R230	ERDS2TJ104	1/4W 100K
R231	ERDS2TJ102	1/4W 1K (E, EB)
R231	ERDS2TJ471	1/4W 470 (EG)
R232	ERDS2TJ122	1/4W 1.2K
R233	ERDS2TJ684	1/4W 680K
R234	ERDS2TJ103	1/4W 10K
R235	ERDS2TJ471	1/4W 470
R236	ERDS2TJ183T	1/4W 18K
R238	ERDS2TJ471	1/4W 470
R240	ERDS2TJ152	1/4W 1.5K
R247	ERDS2TJ103	1/4W 10K
R251	ERDS2TJ103	1/4W 10K (E, EB)
R252	ERDS2TJ822	1/4W 8.2K (E, EB)
R253	ERDS2TJ182	1/4W 1.8K (E, EB)
R254	ERDS2TJ223	1/4W 22K (E, EB)
R256	ERDS2TJ102	1/4W 1K (E, EB)
R258	ERDS2TJ122	1/4W 1.2K (E, EB)
R259	ERDS2TJ223	1/4W 22K (E, EB)
R261	ERDS2TJ102	1/4W 1K (E, EB)
R262	ERDS2TJ332	1/4W 3.3K (E, EB)
R263	ERDS2TJ153	1/4W 15K (E, EB)
R264	ERDS2TJ102	1/4W 1K (E, EB)
R301	ERDS2TJ393	1/4W 39K (E, EB)
R301	ERDS2TJ333	1/4W 33K (EG)
R302	ERDS2TJ151	1/4W 150
R303, 304	ERDS2TJ223	1/4W 22K
R305, 306	ERDS2TJ272T	1/4W 2.7K
R307, 308	ERDS2TJ562	1/4W 5.6K
R309	ERDS2TJ154	1/4W 150K (E, EB)
R309	ERDS2TJ124T	1/4W 120K (EG)
R311	ERDS2TJ102	1/4W 1K
R312	ERDS2TJ153	1/4W 15K
R313, 314	ERDS2TJ473	1/4W 47K
R315	ERDS2TJ103	1/4W 10K
R316	ERDS2TJ222	1/4W 2.2K
R317	ERDS2TJ473	1/4W 47K
R321, 322	ERDS2TJ333	1/4W 33K (E, EB)
R321, 322	ERDS2TJ153	1/4W 15K (EG)
R325, 326	ERDS2TJ102	1/4W 1K
R347	ERDS2TJ272T	1/4W 2.7K
R348	ERDS2TJ221	1/4W 220
R351, 352	ERDS2TJ820	1/4W 82
R353, 354	ERDS2TJ104	1/4W 100K
R355-357	ERDS2TJ680T	1/4W 68
R358	ERDS2TJ272T	1/4W 2.7K
R359	ERDS2TJ330	1/4W 33
R360	ERDS2TJ560T	1/4W 56
R361-363	ERDS2TJ680T	1/4W 68
R364	ERDS2TJ330	1/4W 33
R365	ERDS2TJ560T	1/4W 56
R366	ERDS2TJ473	1/4W 47K
R367, 368	ERDS2TJ272T	1/4W 2.7K
R369	ERDS2TJ103	1/4W 10K
R370, 371	ERDS2TJ473	1/4W 47K
R372	ERDS2TJ102	1/4W 1K
R373	ERDS2TJ103	1/4W 10K
R401, 402	ERDS2TJ332	1/4W 3.3K
R403, 404	ERDS2TJ822	1/4W 8.2K
R405, 406	ERD25FJ470	1/4W 47 ⚠
R411-414	ERDS2TJ222	1/4W 2.2K
R415-420	ERDS2TJ102	1/4W 1K
R421, 422	ERDS2TJ222	1/4W 2.2K
R429-431	ERDS2TJ103	1/4W 10K
R451, 452	ERDS2TJ821	1/4W 820
R453, 454	ERDS2TJ224T	1/4W 220K
R455, 456	ERDS2TJ563	1/4W 56K
R457, 458	ERDS2TJ271	1/4W 270
R459, 460	ERDS2TJ680T	1/4W 68
R461, 462	ERDS2TJ184T	1/4W 180K
R463, 464	ERDS2TJ123	1/4W 12K
R465, 466	ERDS2TJ563	1/4W 56K
R467, 468	ERDS2TJ102	1/4W 1K
R501, 502	ERDS2TJ222	1/4W 2.2K
R503, 504	ERDS2TJ102	1/4W 1K
R505, 506	ERDS2TJ473	1/4W 47K
R507, 508	ERDS2TJ104	1/4W 100K
R509-512	ERDS2TJ103	1/4W 10K
R513	ERDS2TJ153	1/4W 15K
R514	ERDS2TJ394	1/4W 390K
R515, 516	ERDS2TJ104	1/4W 100K
R517, 518	ERDS2TJ223	1/4W 22K
R519, 520	ERDS2TJ472	1/4W 4.7K
R521, 522	ERDS2TJ393	1/4W 39K
R523, 524	ERDS2TJ222	1/4W 2.2K
R525, 526	ERDS2TJ221	1/4W 220
R527-530	ERDS2TJ102	1/4W 1K
R531	ERDS2TJ394	1/4W 390K
R532	ERDS2TJ103	1/4W 10K
R533	ERDS2TJ104	1/4W 100K
R534	ERDS2TJ103	1/4W 10K
R535	ERDS2TJ104	1/4W 100K
R538	ERDS2TJ684	1/4W 680K
R539	ERDS2TJ153	1/4W 15K
R540	ERDS2TJ223	1/4W 22K
R542	ERDS2TJ222	1/4W 2.2K
R543	ERDS2TJ824	1/4W 820K
R544	ERDS2TJ272T	1/4W 2.7K
R545	ERDS2TJ104	1/4W 100K
R546	ERDS2TJ103	1/4W 10K
R547	ERDS2TJ183T	1/4W 18K
R550	ERDS2TJ103	1/4W 10K
R551	ERDS2TJ104	1/4W 100K
R552	ERDS2TJ392T	1/4W 3.9K
R553	ERDS2TJ103	1/4W 10K
R554	ERDS2TJ223	1/4W 22K
R555	ERDS2TJ472	1/4W 4.7K
R556	ERDS2TJ104	1/4W 100K
R558	ERDS2TJ103	1/4W 10K
R559-561	ERDS2TJ104	1/4W 100K
R601, 602	ERDS2TJ102	1/4W 1K

Ref. No.	Part No.	Values & Remarks
R603, 604	ERDS2TJ563	1/4W 56K
R605, 606	ERDS2TJ182	1/4W 1.8K
R607, 608	ERDS2TJ563	1/4W 56K
R609, 610	ERDS2TJ470	1/4W 47
R611, 612	ERDS1FVJ100T	1/2W 10 ⚠
R613	ERDS2TJ223	1/4W 22K
R614	ERD25FJ470	1/4W 47 ⚠
R615	ERDS2TJ473	1/4W 47K ⚠
R617, 618	ERDS1FVJ221T	1/2W 220 ⚠
R619, 620	ERG2ANJP331S	2W 330
R621, 622	ERDS2TJ100	1/4W 10
B623	ERDS2TJ684	1/4W 680K
R624	ERDS2TJ103	1/4W 10K ⚠
R627	ERDS2TJ154	1/4W 150K
R628	ERDS2TJ684	1/4W 680K
R629, 630	ERDS1FVJ181T	1/2W 180 ⚠
R631	ERDS2TJ103	1/4W 10K
R632	ERD25FJ101	1/4W 100 ⚠
R633, 634	ERDS2TJ221	1/4W 220
R651, 652	ERDS2TJ223	1/4W 22K
R653	ERDS2TJ682T	1/4W 6.8K
R654	ERDS2TJ103	1/4W 10K
R655	ERDS2TJ223	1/4W 22K
R656	ERDS2TJ332	1/4W 3.3K
R657	ERDS1FVJ390T	1/2W 39 ⚠
R658	ERDS2TJ220T	1/4W 22
R659	ERDS2TJ222	1/4W 2.2K
R660	ERDS2TJ103	1/4W 10K
R661, 662	ERDS2TJ333	1/4W 33K
R663	ERDS2TJ153	1/4W 15K
R664, 665	ERDS2TJ103	1/4W 10K
R666	ERDS2TJ104	1/4W 100K
R667, 668	ERDS2TJ223	1/4W 22K
R671, 672	ERDS2TJ471	1/4W 470
R701	ERDS1FVJ332T	1/2W 3.3K ⚠
R702	ERDS2TJ122	1/4W 1.2K
R703	ERDS2TJ272T	1/4W 2.7K
R704	ERDS2TJ222	1/4W 2.2K
R705	ERDS2TJ272T	1/4W 2.7K ⚠
R706, 707	ERDS2TJ1R2	1/4W 1.2 ⚠
R708, 709	ERDS1FVJ180T	1/2W 18 ⚠
R710	ERDS2TJ272T	1/4W 2.7K
R711	ERDS1FVJ2R2T	1/2W 2.2 ⚠
R713	ERDS2TJ183T	1/4W 18K ⚠
R714	ERDS2TJ102	1/4W 1K ⚠
R715	ERDS2TJ101	1/4W 100 ⚠
R716	ERDS2TJ222	1/4W 2.2K ⚠
R717	ERD25FVJ150T	1/4W 15 ⚠
R718, 719	ERDS2TJ1R5T	1/4W 1.5 ⚠
R753, 754	ERDS2TJ472	1/4W 4.7K
R755	ERDS2TJ102	1/4W 1K
R771, 772	ERDS1FVJ2R2T	1/2W 2.2 ⚠

Ref. No.	Part No.	Values & Remarks
R773, 774	ERDS1FVJ6R8T	1/2W 6.8 ⚠
R777, 778	ERDS1FJ270	1/2W 27 ⚠
R780	ERDS1FVJ4R7T	1/2W 4.7 ⚠
R801	ERDS2TJ681	1/4W 680
R802	ERDS2TJ102	1/4W 1K
R803	ERDS2TJ105T	1/4W 1M
R804	ERDS2TJ104	1/4W 100K
R805	ERDS2TJ223	1/4W 22K
R806	ERDS2TJ471	1/4W 470
R807	ERDS2TJ822	1/4W 8.2K
R808	ERDS2TJ563	1/4W 56K
R809-812	ERDS2TJ102	1/4W 1K
R813, 814	ERDS2TJ122	1/4W 1.2K
R815, 816	ERDS2TJ152	1/4W 1.5K
R817, 818	ERDS2TJ182	1/4W 1.8K
R819	ERDS2TJ222	1/4W 2.2K
R821	ERDS2TJ332	1/4W 3.3K
R823	ERDS2TJ472	1/4W 4.7K
R825	ERDS2TJ682T	1/4W 6.8K
R827	ERDS2TJ103	1/4W 10K
R828, 829	ERDS1FVJ331T	1/2W 330 ⚠
R830	ERDS2TJ104	1/4W 100K
R831	ERDS2TJ152	1/4W 1.5K
R832	ERDS2TJ332	1/4W 3.3K
R835, 836	ERDS2TJ824	1/4W 820K
R837, 838	ERDS2TJ154	1/4W 150K
R839, 840	ERDS2TJ153	1/4W 15K
R841, 842	ERDS2TJ222	1/4W 2.2K
R843, 844	ERDS2TJ182	1/4W 1.8K
R845-849	ERDS2TJ473	1/4W 47K
R851	ERDS1FVJ2R2T	1/2W 2.2 ⚠
R853	ERDS2TJ473	1/4W 47K
R891	ERDS2TJ102	1/4W 1K
R893	ERDS2TJ333	1/4W 33K
R894	ERDS2TJ102	1/4W 1K
R895	ERDS2TJ103	1/4W 10K
R896	ERDS2TJ222	1/4W 2.2K
R897	ERDS2TJ221	1/4W 220
R898	ERDS2TJ223	1/4W 22K
R899	ERDS2TJ473	1/4W 47K
R901	ERDS2TJ102	1/4W 1K
R902	ERDS2TJ681	1/4W 680
R903, 904	ERDS2TJ103	1/4W 10K
R905, 906	ERDS2TJ102	1/4W 1K
R907, 908	ERDS2TJ182	1/4W 1.8K
R909, 910	ERDS2TJ222	1/4W 2.2K
R911, 912	ERDS2TJ392T	1/4W 3.9K
R913, 914	ERDS2TJ562	1/4W 5.6K
R915, 916	ERDS2TJ123	1/4W 12K
R917, 918	ERDS2TJ273	1/4W 27K
R919	ERDS2TJ224T	1/4W 220K
R920	ERDS2TJ222	1/4W 2.2K

Ref. No.	Part No.	Values & Remarks
R921	ERDS2TJ103	1/4W 10K
R922, 923	ERDS2TJ472	1/4W 4.7K
R925, 926	ERDS2TJ102	1/4W 1K
R927	ERDS2TJ221	1/4W 220
R928, 929	ERDS2TJ103	1/4W 10K
R930, 931	ERD25FJ101	1/4W 100 ⚠
R932	ERDS2TJ102	1/4W 1K
R933, 934	ERDS2TJ473	1/4W 47K
R935, 936	ERDS2TJ474	1/4W 470K
R937	ERDS2TJ103	1/4W 10K
R938	ERDS2TJ102	1/4W 1K
R939	ERDS2TJ103	1/4W 10K
R971, 972	ERDS2TJ221	1/4W 220
R973	ERDS2TJ391	1/4W 390
R1001	ERDS2TJ102	1/4W 1K
R1002, 1003	ERDS2TJ470	1/4W 47
R1004-1006	ERDS2TJ223	1/4W 22K
R1007	ERDS2TJ824	1/4W 820K
R1008	ERDS2TJ102	1/4W 1K
R1009	ERDS1FVJ680T	1/2W 68 ⚠
R1010, 1011	ERDS2TJ473	1/4W 47K
R1012, 1013	ERDS2TJ153	1/4W 15K
R1014, 1015	ERDS2TJ752T	1/4W 7.5K
R1017	ERDS2TJ474	1/4W 470K
R1018-1021	ERDS2TJ473	1/4W 47K
R1022	ERDS2TJ103	1/4W 10K
R1023, 1024	ERDS2TJ224T	1/4W 220K
R1025	ERDS2TJ102	1/4W 1K
R1026, 1027	ERDS2TJ103	1/4W 10K
R1028	ERDS2TJ473	1/4W 47K
R1301, 1302	ERDS2TJ222	1/4W 2.2K
R1303, 1304	ERDS2TJ563	1/4W 56K
R1307, 1308	ERDS2TJ563	1/4W 56K
R1309, 1310	ERDS2TJ332	1/4W 3.3K
R1311	ERDS2TJ684	1/4W 680K
R1313	ERDS2TJ564	1/4W 560K ⚠
R1314	ERDS2TJ154	1/4W 150K
R1315, 1316	ERD25FVJ4R7T	1/4W 4.7 ⚠
R1317, 1318	ERDS2TJ104	1/4W 100K
R1319, 1320	ERDS2TJ222	1/4W 2.2K
R1321, 1322	ERDS2TJ104	1/4W 100K
R1323	ERDS2TJ102	1/4W 1K
R1324	ERDS2TJ824	1/4W 820K
R1325	ERDS2TJ102	1/4W 1K
R1326, 1327	ERDS2TJ103	1/4W 10K
R1328	ERD25FJ470	1/4W 47 ⚠
R1329	ERDS2TJ824	1/4W 820K
R1331, 1332	ERDS2TJ100	1/4W 10
R1405-1410	ERDS2TJ153	1/4W 15K
R1411	ERDS2TJ272T	1/4W 2.7K
R1424	ERD25FJ470	1/4W 47 ⚠
R1431	ERDS2TJ105T	1/4W 1M

Ref. No.	Part No.	Values & Remarks
R1434	ERDS2TJ822	1/4W 8.2K
R1435	ERDS2TJ103	1/4W 10K
R1443	ERDS2TJ820	1/4W 82
R1449	ERDS2TJ102	1/4W 1K
R1452	ERDS2TJ471	1/4W 470
R1453	ERDS2TJ101	1/4W 100
R1454	ERDS2TJ272T	1/4W 2.7K
R1455, 1456	ERDS2TJ473	1/4W 47K
R1457	ERDS2TJ274	1/4W 270K
R1458	ERDS2TJ154	1/4W 150K
R1459	ERDS2TJ332	1/4W 3.3K
R1460	ERDS2TJ181T	1/4W 180
R1461, 1462	ERDS2TJ223	1/4W 22K
R1463	ERDS2TJ103	1/4W 10K
R1464-1466	ERDS2TJ474	1/4W 470K
R1467-1469	ERDS2TJ332	1/4W 3.3K
R1470	ERDS2TJ333	1/4W 33K
R1472	ERDS2TJ682T	1/4W 6.8K
R1473	ERDS2TJ222	1/4W 2.2K
R1474-1476	ERDS2TJ474	1/4W 470K
R1477	ERDS2TJ222	1/4W 2.2K
R1478	ERDS2TJ332	1/4W 3.3K
R1479	ERDS2TJ104	1/4W 100K
R1480	ERDS2TJ102	1/4W 1K
R1481	ERDS2TJ104	1/4W 100K
R1482	ERDS2TJ102	1/4W 1K
R1483	ERDS2TJ562	1/4W 5.6K
R1484	ERDS2TJ222	1/4W 2.2K
R1485	ERDS2TJ102	1/4W 1K
R1486	ERDS2TJ332	1/4W 3.3K
R1487	ERDS2TJ104	1/4W 100K
R1488	ERDS2TJ332	1/4W 3.3K
R2001	ERDS2TJ473	1/4W 47K
R2005-2008	ERDS2TJ104	1/4W 100K
R2009, 2010	ERDS2TJ473	1/4W 47K
R2011, 2012	ERDS2TJ223	1/4W 22K
R2031, 2032	ERDS2TJ223	1/4W 22K
R2033, 2034	ERDS2TJ562	1/4W 5.6K
R2035-2038	ERDS2TJ222	1/4W 2.2K
R2039, 2040	ERDS2TJ562	1/4W 5.6K
		CAPACITORS
C101, 102	ECBT1H150JC5	50V 15P
C103	ECBT1H102KB5	50V 1000P
C105	ECEA0JU221	6.3V 220U
C106	ECKR1H103ZF5	50V 0.01U
C107	ECKT1H223ZF	50V 0.022U
C108	ECEA1EKA4R7B	25V 4.7U
C109	ECEA1CU330	16V 33U
C110, 111	ECBT1H102KB5	50V 1000P
C201, 202	ECKR1H103ZF5	50V 0.01U

Ref. No.	Part No.	Values & Remarks
C204	ECBT1C103MS5	16V 0.01U
C205	ECKT1H223ZF	50V 0.022U
C206	ECBT1H150JC5	50V 15P
C207	ECBT1C103MS5	16V 0.01U
C208	ECEA0JU101B	6.3V 100U
C209	ECEA1HU100	50V 10U
C210-212	ECKT1H223ZF	50V 0.022U
C213	ECBT1H101KB5	50V 100P
C214	ECEA1CKA100B	16V 10U
C215	ECKR1H103ZF5	50V 0.01U
C216	ECEA1CKA100B	16V 10U
C217	ECEA1HKA010B	50V 1U
C220	ECEA1CKA100B	16V 10U
C221	ECFR1E183KR	25V 0.018U
C222	ECQM1H473JZ	50V 0.047U
C225	ECBT1H180JC5	50V 18P
C226	ECKR1H103ZF5	50V 0.01U
C227	ECEA1CKA100B	16V 10U
C228	ECBT1H8R2KC5	50V 8.2P (E, EB)
C228	ECBT1H100JC5	50V 10P (EG)
C229	ECBT1H102KB5	50V 1000P
C230	ECCR1H680JS5	50V 68P
C231	ECCR1H820JS5	50V 82P
C232	ECBT1H471KB5	50V 470P
C251	ECKT1H223ZF	50V 0.022U (E, EB)
C252	ECEA1HKA010B	50V 1U (E, EB)
C253	ECKT1H223ZF	50V 0.022U (E, EB)
C301	ECA1CM101B	16V 100U
C302	ECEA1HKAR47B	50V 0.47U
C303	ECEA1HKA010B	50V 1U
C304-306	ECEA1HKA3R3B	50V 3.3U
C307, 308	ECFR1E392KR	25V 3900P
C309	ECKT1H223ZF	50V 0.022U
C310	ECFR1E473KR	25V 0.047U
C311	ECQP1471JZ	50V 470P
C312	ECEA1VKA4R7B	35V 4.7U
C313, 314	ECBT1H102KB5	50V 1000P
C321	ECEA1CKA100B	16V 10U
C323, 324	ECFR1E332KR	25V 3300P
C325	ECBT1H330J5	50V 33P
C326	ECKR1H103ZF5	50V 0.01U
C327	ECBT1H102KB5	50V 1000P (EG)
C351, 352	ECEA0JU101B	6.3V 100U
C353	ECBT1H120J5	50V 12P
C354	ECA0JM471B	6.3V 470U
C355	ECBT1H120J5	50V 12P
C356	ECA0JM471B	6.3V 470U
C357	ECEA1CU470	16V 47U
C358	ECEA1CKA100B	16V 10U
C359	ECEA1CU470	16V 47U
C360-362	ECBT1E103ZF	25V 0.01U
C401, 402	ECBT1E103ZF	25V 0.01U

Ref. No.	Part No.	Values & Remarks
C405	ECBT1H101KB5	50V 100P
C406	ECBT1H121KB5	50V 120P
C407	ECEA0JU101B	6.3V 100U
C408, 409	ECBT1E103ZF	25V 0.01U
C410	ECEA1CKA220B	16V 22U
C411	ECBT1H331KB5	50V 330P
C421	ECEA1CKA220B	16V 22U
C451, 452	ECEA1VKA4R7B	35V 4.7U
C453, 454	ECBT1H101KB5	50V 100P
C455, 456	ECBT1H102KB5	50V 1000P
C457, 458	ECFR1E223KR	25V 0.022U
C459, 460	ECFR1E682KR	25V 6800P
C461, 462	ECEA1VKA4R7B	35V 4.7U
C463, 464	ECEA1AKA330B	10V 33U
C501, 502	ECFR1E333KR	25V 0.033U
C503, 504	ECBT1H101KB5	50V 100P
C505, 506	ECEA1CU470	16V 47U
C507-510	ECBT1E103ZF	25V 0.01U
C511, 512	ECEA1HKA3R3B	50V 3.3U
C513, 514	ECBT1H270J5	50V 27P
C515, 516	ECBT1H101KB5	50V 100P
C517, 518	ECBT1H470J5	50V 47P
C519, 520	ECEA1HKA3R3B	50V 3.3U
C521, 522	ECKR1H103ZF5	50V 0.01U
C523	ECBT1H330J5	50V 33P
C524	ECEA1HKA010B	50V 1U
C525	ECEA1HKA2R2B	50V 2.2U
C526, 527	ECBT1E103ZF	25V 0.01U
C529, 530	ECEA1CKA220B	16V 22U
C531	ECBT1H330J5	50V 33P
C532	ECBT1E103ZF	25V 0.01U
C533, 534	ECEA1VKA4R7B	35V 4.7U
C601, 602	ECEA1VKA4R7B	35V 4.7U
C603, 604	ECQP1271JZ	50V 270P
C605, 606	ECEA1CKA220B	16V 22U
C607, 608	ECCD1H150KC	50V 15P
C609, 610	ECCD1H151K	50V 150P
C611, 612	ECQV1H473JZ3	50V 0.047U
C613	ECEA1VU470	35V 47U
C614	ECEA1HU330	50V 33U
C615	ECEA2AU100	100V 10U
C616	ECEA2AN2R2SB	100V 2.2U ⚠
C651	ECEA1HKA2R2B	50V 2.2U
C652	ECEA1CKA100B	16V 10U
C653	ECEA0JU221	6.3V 220U
C654	ECBT1E223ZF	25V 0.022U
C671, 672	ECBT1H180JC5	50V 18P
C673, 674	ECBT1H221KB5	50V 220P
C675, 676	ECBT1H101KB5	50V 100P
C677, 678	ECBT1H331KB5	50V 330P
C679, 680	ECBT1H101KB5	50V 100P
C682-684	ECKR1H103ZF5	50V 0.01U

Ref. No.	Part No.	Values & Remarks
C685, 686	ECBT1H101KB5	50V 100P
C689, 690	ECCD1H151K	50V 150P
C693, 694	ECKR1H331KB5	50V 330P
C695, 696	ECBT1H331KB5	50V 330P
C697, 698	ECBT1H101KB5	50V 100P
C701, 702	ECES71V103VN	71V 10000U ⚠
C703	ECKR1H103ZF5	50V 0.01U
C704	ECA1VM101B	35V 100U
C705	ECA1CM101B	16V 100U
C706	ECKR1H103ZF5	50V 0.01U
C709, 710	ECKR1H103ZF5	50V 0.01U ⚠
C711	ECA1CM101B	16V 100U
C712	ECEA1VU470	35V 47U ⚠
C713	ECEA0JU101B	6.3V 100U
C751	ECA1CM102E	16V 1000U
C752	ECEA1CU470	16V 47U
C753, 754	ECKR1H103ZF5	50V 0.01U
C755	ECBT1E103ZF	25V 0.01U
C756	ECEA1CKA220B	16V 22U
C757, 758	ECKR1H103ZF5	50V 0.01U
C771	ECQE2104KF3	250V 0.1U ⚠
C791	ECKWNS103ZVS	500V 0.01U ⚠
C801	ECEA0JU102	6.3V 1000U
C802	ECBT1E103ZF	25V 0.01U
C803, 804	ECEA0JU102	6.3V 1000U
C805	ECEA0JKA221B	6.3V 220U
C806	ECBT1E103ZF	25V 0.01U
C807, 808	ECEA1HKAR47B	50V 0.47U
C809	ECEA0JKA470B	6.3V 47U
C810	ECKR1H103ZF5	50V 0.01U
C811-814	ECBT1E103ZF	25V 0.01U
C815	ECEA1CKA470B	16V 47U
C816	ECEA1CKA100B	16V 10U
C817, 818	ECBT1H102KB5	50V 1000P
C819	ECQP1102JZ3	50V 1000P
C820	ECEA1CKA470B	16V 47U
C821, 822	ECEA1HKA3R3B	50V 3.3U
C851, 852	ECEA0JU101B	6.3V 100U
C853, 854	ECFR1E104KR	25V 0.1U
C891	ECFR1E392KR	25V 3900P
C892	ECEA0JKA470B	6.3V 47U
C901	ECEA0JU102	6.3V 1000U
C902	ECBT1E103ZF	25V 0.01U
C904, 905	ECEA0JU102	6.3V 1000U
C906	ECBT1E103ZF	25V 0.01U
C909, 910	ECBT1H101KB5	50V 100P
C911, 912	ECEA2AU100	100V 10U
C913	ECEA1HKA100B	50V 10U
C914	ECEA1VKA100B	35V 10U
C916	ECEA1HKA010B	50V 1U
C917	ECEA1CKA100B	16V 10U
C971	ECKR1H103ZF5	50V 0.01U
C1001	ECKR1H103ZF5	50V 0.01U
C1002	ECBT1E103ZF	25V 0.01U
C1003, 1004	ECEA1HKA4R7B	50V 4.7U
C1005-1008	ECQV1H104JZ3	50V 0.1U
C1009, 1010	ECBA1H681KB5	50V 680P
C1011	ECQV1H334JZ3	50V 0.33U
C1012	ECKR1H103ZF5	50V 0.01U
C1013	ECQV1H334JZ3	50V 0.33U
C1014-1017	ECEA1HKA4R7B	50V 4.7U
C1018, 1019	ECQM1H682JZ	50V 6800P
C1020	ECEA1CU470	16V 47U
C1021	ECA1CM101B	16V 100U
C1022, 1023	ECEA1HKAR22B	50V 0.22U
C1024, 1025	ECEA1HKA4R7B	50V 4.7U
C1026, 1027	ECQM1H224JZ	50V 0.22U
C1028, 1029	ECEA1CKA100B	16V 10U
C1030	ECQV1H154JZ3	50V 0.15U
C1031	ECEA1CKA100B	16V 10U
C1032	ECQV1H154JZ3	50V 0.15U
C1033	ECEA1CKA100B	16V 10U
C1034-1036	ECQB1H103JF3	50V 0.01U
C1037	ECQM1H222KV3	50V 2200P
C1038, 1039	ECEA1HKA4R7B	50V 4.7U
C1040, 1041	ECA1CM101B	16V 100U
C1042	ECEA1HKA4R7B	50V 4.7U
C1043	ECQV1H474JZ3	50V 0.47U
C1045, 1046	ECEA1CKA100B	16V 10U
C1047, 1048	ECBT1H470J5	50V 47P
C1049, 1050	ECBT1E103ZF	25V 0.01U
C1301, 1302	ECEA1HKA3R3B	50V 3.3U
C1303, 1304	ECBA1H681KB5	50V 680P
C1305, 1306	ECBT1H821KB5	50V 820P
C1307, 1308	ECEA1HU220	50V 22U
C1309, 1310	ECBT1H100JC5	50V 10P
C1311	ECEA2AU100	100V 10U
C1312	ECEA1JU220	63V 22U
C1313, 1314	ECKT1H223ZF	50V 0.022U
C1315, 1316	ECEA1VU332	35V 3300U ⚠
C1317	ECKR2H103ZU	500V 0.01U ⚠
C1318	ECKR1H103ZF5	50V 0.01U
C1321, 1322	ECEA1HKA3R3B	50V 3.3U
C1403	ECEA1HKA010B	50V 1U
C1404	ECQM1H332KV3	50V 3300P
C1405	ECBT1H561KB5	50V 560P
C1406	ECQB1H104KF3	50V 0.1U
C1407	ECEA1CU470	16V 47U
C1408-1410	ECQB1H104KF3	50V 0.1U
C1411	ECQM1H332KV3	50V 3300P
C1412	ECBT1H561KB5	50V 560P
C1413	ECEA1HKA010B	50V 1U
C1414	ECQM1H123JZ	50V 0.012U
C1415	ECFR1E104KR	25V 0.1U
C1416	ECEA0JU221	6.3V 220U
C1417	ECEA0JU221	6.3V 220U
C1441	ECEA1AKA220B	10V 22U
C1453, 1454	ECBT1H221KB5	50V 220P
C1455, 1456	ECBT1H101KB5	50V 100P
C1457	ECEA1CKA100B	16V 10U
C1458	ECQM1H472JZ	50V 4700P
C1459	ECQM1H273KV3	50V 0.027U
C1460	ECQM1H473JZ	50V 0.047U
C1461	ECEA1CKA100B	16V 10U
C1462	ECQB1H104KF3	50V 0.1U
C1463	ECQV1H334JZ3	50V 0.33U
C1464	ECA1CM221B	16V 220U
C1465	ECEA1CU470	16V 47U
C1466	ECQM1H562JZ	50V 5600P
C1467	ECEA1CKA100B	16V 10U
C1468, 1469	ECEA1HKA010B	50V 1U
C1470	ECEA1HKA3R3B	50V 3.3U
C1472, 1473	ECEA1HKA3R3B	50V 3.3U
C1474, 1475	ECKR1H103ZF5	50V 0.01U
C1476-1478	ECBT1H181KB5	50V 180P
C1479	ECEA1CKA100B	16V 10U
C1480	ECEA1CU470	16V 47U
C1481-1483	ECEA1HKA3R3B	50V 3.3U
C1484	ECEA1HKA010B	50V 1U
C1485	ECEA1CKA100B	16V 10U
C1486	ECEA1HKA3R3B	50V 3.3U
C1487, 1488	ECBT1E103ZF	25V 0.01U
C1489, 1490	ECEA1HKA3R3B	50V 3.3U
C1491	ECBT1H330J5	50V 33P
C1492	ECBT1H331KB5	50V 330P
C2001, 2002	ECEA1VKA4R7B	35V 4.7U
C2005-2008	ECEA1CKA100B	16V 10U
C2009-2012	ECQV1H393JZ3	50V 0.039U
C2013-2016	ECBT1C103KS5	16V 0.01U
C2017-2020	ECBT1C222KR5	16V 2200P
C2021-2024	ECBT1H102KB5	50V 1000P
C2025, 2026	ECEA0JU101B	6.3V 100U
C2027	ECBT1E103ZF	25V 0.01U
C2028	ECEA0JU101B	6.3V 100U
C2029, 2030	ECBT1E103ZF	25V 0.01U
C2031, 2032	ECBT1H330J5	50V 33P
C2035-2040	ECEA1HKA3R3B	50V 3.3U
C2041	ECEA1CKA100B	16V 10U
C2051, 2052	ECBT1E103ZF	25V 0.01U

ORDER NO. AD9202056S5
A2

Service Manual

Receiver

SA-GX505

Supplement

AV Control Stereo Receiver

DOLBY SURROUND*
PRO · LOGIC

Colour

(K) ... Black Type

Area

Suffix for Model No.	Area	Colour
(P)	U.S.A.	(K)
(PC)	Canada.	
(E)	Europe.	
(EB)	Great Britain.	
(EG)	Germany & Italy.	

Please file and use this supplement manual together with the service manual for Model No. SA-GX505, Order No. AD9105131C1 (P, PC) and AD9109215C2 (E, EB, EG).

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CHANGES

■CHANGE IN REPLACEMENT PARTS LIST

Notes:
- The parenthesized indications in the Remarks columns specify the areas.
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Ref. No.	Change of Part No. ORIGINAL ➡	NEW	Part Name & Description	Remarks
TRANSISTOR(S)				
Q652	2SC3311A-Q	—	TRANSISTOR	Deletion (P, PC)
Q653	—	**2SA1309A-R**	TRANSISTOR	Addition (P, PC)
Q654	—	**2SB621QRSTA**	TRANSISTOR	Addition (P, PC)
DIODES(S)				
D652	MA4068M	—	DIODE	Deletion (P, PC)
D653	—	**MA4075MTA**	DIODE	Addition (P, PC)
RESISTORS				
R655	ERDS2TJ392T	**ERDS2TJ682T**	RESISTOR, 1/4W, 6.8KΩ	
R657	ERDS2TJ103	—	RESISTOR, 1/4W, 10KΩ	Deletion (P, PC)
R659	ERDS1FVJ220T	—	RESISTOR, 1/2W, 22Ω	⚠ Deletion (P, PC)
R660	ERDS1FVJ220T	—	RESISTOR, 1/2W, 22Ω	⚠ Deletion (P, PC)
R661	ERDS1FVJ220T	—	RESISTOR, 1/2W, 22Ω	⚠ Deletion (P, PC)
R670	—	**ERDS1FVJ390T**	RESISTOR, 1/2W, 39Ω	⚠ Addition (P, PC)
R671	—	**ERDS2TJ332**	RESISTOR, 1/4W, 3.3KΩ	Addition (P, PC)
R205	ERDS2TJ271	**ERDS2TJ391**	RESISTOR, 1/4W, 390Ω	(E, EB, EG)
R238	ERDS2TJ471	**ERDS2TJ271**	RESISTOR, 1/4W, 270Ω	(E, EG, EG)

Technics

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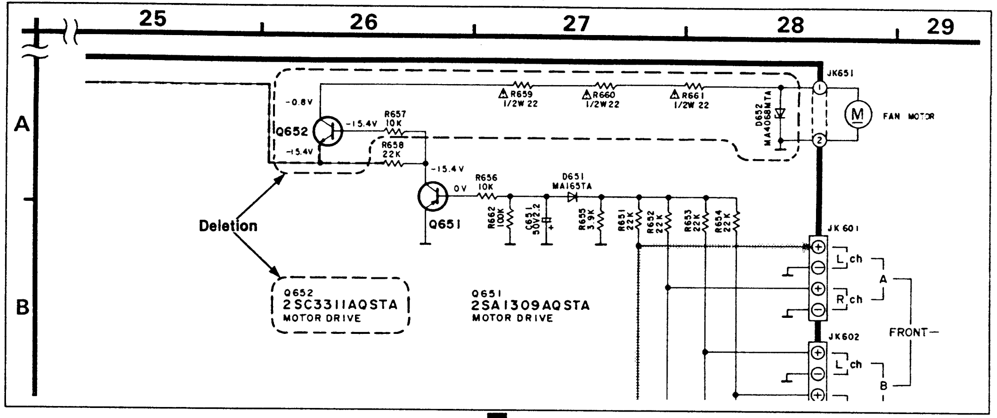
SCHEMATIC DIAGRAM (See page 35 for (P, PC) areas.)

- **Fan motor drive circuit**

(ORIGINAL)


25
26
27
28
29
A
B
-0.8V
Q652
-15.4V
-15.4V
R657
10K
R658
22K
-15.4V
R659
1/2W 22
R660
1/2W 22
R661
1/2W 22
D652
MA4068MTA
JK651
FAN MOTOR
Q651
0V
R656
10K
D651
MA165TA
R662
100K
C651
50V2.2
R655
3.9K
R651
22K
R652
22K
R653
22K
R654
22K
JK 601
L ch
R ch
A
JK602
L ch
B
FRONT
Deletion
Q652
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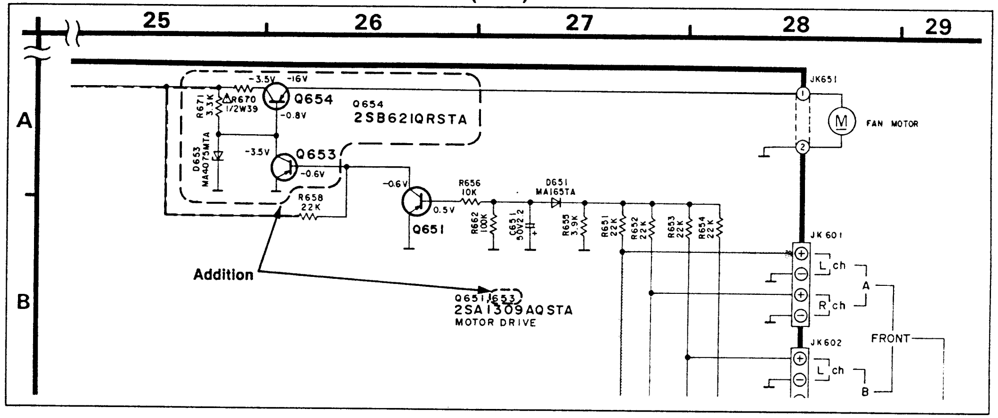
MOTOR DRIVE
Q651
2SA1309AQSTA
MOTOR DRIVE

(NEW)


25
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27
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29
A
B
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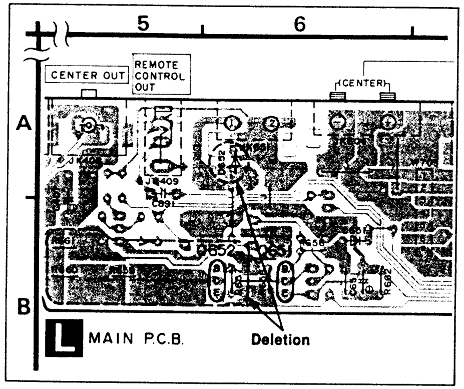
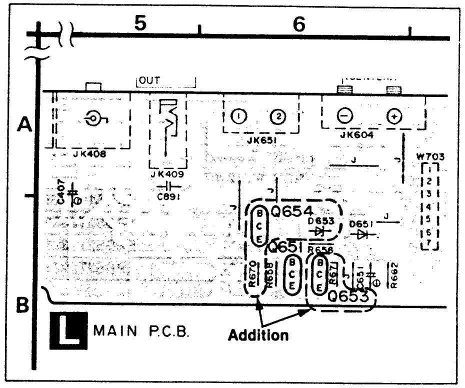
-16V
R671
3.3K
R670
1/2W39
Q654
-0.8V
Q654
2SB621QRSTA
D653
MA4075MTA
-3.5V
Q653
-0.6V
R658
22K
-0.6V
Q651
0.5V
R656
10K
D651
MA165TA
R662
100K
C651
50V2.2
R655
3.9K
R651
22K
R652
22K
R653
22K
R654
22K
JK651
FAN MOTOR
JK 601
L ch
R ch
A
JK602
L ch
B
FRONT
Addition
Q651, 653
2SA1309AQSTA
MOTOR DRIVE

PRINTED CIRCUIT BOARD (See pages 49, 50 for (P, PC) areas.)

(ORIGINAL)


5
6
A
B
CENTER OUT
REMOTE CONTROL OUT
CENTER
JK409
C891
D652
Q652
Q651
R662
L
MAIN P.C.B.
Deletion

(NEW)


5
6
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B
OUT
JK408
JK409
C891
C407
JK651
JK604
W703
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2
3
4
5
6
Q654
D653
D651
Q651
R656
R670
R671
R658
C651
R662
Q653
L
MAIN P.C.B.
Addition

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